CATALOG 1969-1970

Amherst College Bulletin

VOLUME 59 · NUMBER 1
OCTOBER 1969

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Amherst College

Bulletin

VOLUME 59 · NUMBER 1

OCTOBER 1969

CATALOG 1969-1970

DIRECTIONS FOR CORRESPONDENCE

The post office and telegraph address of the College is Amherst, Massachusetts, 01002. The telephone number for all departments is 542–2000 (Area Code 413).

General information about Amherst College is available upon request from the Office of the Secretary, Box 65, Amherst College, Amherst, Massachusetts 01002.

Specific inquiries on the following subjects should be addressed to the officers named below:

Admission of students	Eugene S. Wilson, *Dean of Admission*.
Alumni matters	J. Alfred Guest, *Secretary of the Alumni Council*
Business matters	Minot Grose, *Business Manager*
Catalogs and brochures	Horace W. Hewlett, *Secretary of the College*
Financial Aid	Dean Donald McM. Routh
Student affairs	Dean Robert A. Ward
Transcripts and records	Robert F. Grose, *Registrar*

The New England Association of Colleges and Secondary Schools accredits schools and colleges in the six New England states. Membership in one of the six regional accrediting associations in the United States indicates that the school or college has been carefully evaluated and found to meet standards agreed upon by qualified educators. Colleges support the efforts of public school and community officials to have their secondary school meet the standards of membership.

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College Calendar

1969

September 17, Wednesday. Classes begin, 8:00 A.M.

October 1, Wednesday. Last day for first semester course changes.

October 25, Saturday. Wesleyan football game at Amherst. A holiday.

November 15, Saturday. Williams football game at Williamstown. A holiday.

November 25, Tuesday. Thanksgiving recess begins, 5:00 P.M.

December 1, Monday. Thanksgiving recess ends, 8:00 A.M.

December 20, Saturday. Christmas recess begins, 12:00 noon.

1970

January 4, Sunday. College facilities open.

January 5–10, Monday–Saturday. One week of classes.

January 12–19, Monday–Monday. First semester examination period.

January 26, Monday. Beginning of second semester, 8:00 A.M.

February 9, Monday. Last day for second semester course changes.

March 20, Friday. Spring recess begins, 5:00 P.M.

April 6, Monday. Spring recess ends, 8:00 A.M.

May 16, Saturday. Classes end, 12:00 noon.

May 18–25, Monday–Monday. Second semester examination period.

June 5, Friday. Commencement.

I

THE CORPORATION

FACULTY

FELLOWS

ADMINISTRATION

The Robert Frost Library

The Corporation

CHAIRMAN OF THE CORPORATION

Oliver Boutwell Merrill, LL.B., *New York, New York*

HONORARY CHAIRMAN OF THE CORPORATION AND TRUSTEE EMERITUS

John Jay McCloy, LL.B., *New York, New York*

PRESIDENT OF THE COLLEGE

Calvin Hastings Plimpton, M.D., MED.SC.D., *Amherst, Massachusetts*

TRUSTEES

Howard Oliver Colgan, Jr., LL.B., *New York, New York*
Kendall Bush DeBevoise, LL.B., *New York, New York*
Walter Gellhorn, LL.B., *New York, New York*
William Henry Hastie, S.J.D., *Philadelphia, Pennsylvania*
John Anthony Hill, LL.B., *New York, New York*
Harry William Knight, M.B.A., *Darien, Connecticut*
Francis Taylor Pearsons Plimpton, LL.B., *New York, New York*
William Willard Wirtz, LL.B., *Washington, D.C.*
Walter Orr Roberts,* PH.D., *Boulder, Colorado*
George Leslie Cadigan,* B.A., *St. Louis, Missouri*
George Bickley Beitzel,* M.B.A., *Chappaqua, New York*
David Bicknell Truman,* PH.D., *South Hadley, Massachusetts*
George Latimer Shinn,* B.A., *Morristown, New Jersey*
George Edward Peterson,* B.A., *Cambridge, Massachusetts*

SECRETARY OF THE CORPORATION

James Alfred Guest, LL.B., *Amherst, Massachusetts*

TRUSTEES EMERITI

Frank Learoyd Boyden, B.A., *Deerfield, Massachusetts*
Julius Seelye Bixler, PH.D., *Jaffrey, New Hampshire*
Lewis Williams Douglas, B.A., *Phoenix, Arizona*
Arthur Lee Kinsolving, B.D., *New York, New York*
Robert Washburn Maynard, LL.B., *Boston, Massachusetts*
Eustace Seligman, LL.B., *New York, New York*

*The terms of the Alumni Trustees expire as follows: Walter Orr Roberts, 1970; George Leslie Cadigan, 1971; George Bickley Beitzel, 1972; David Bicknell Truman, 1973; George Latimer Shinn, 1974; George Edward Peterson, 1975.

COMMITTEES OF THE CORPORATION*

The Chairman of the Corporation and the President of the College are members, *ex officiis*, of all committees.

Executive Committee. Messrs. DeBevoise, Gellhorn, Hill, Knight, Merrill (Chairman), Plimpton.

Budget and Finance Committee. Messrs. Beitzel (Chairman), DeBevoise, Hill, Merrill, Seligman, Shinn.

Investment Committee. Messrs. Colgan, Hill, Knight, Merrill (Chairman), Plimpton, Shinn.

Instruction Committee. Messrs. Beitzel, Cadigan, DeBevoise, Gellhorn, Hastie, Plimpton, Roberts, Seligman, Shinn, Truman (Chairman), Wirtz.

Buildings and Grounds Committee. Messrs. Beitzel, Cadigan, DeBevoise (Chairman), Hastie, Hill, Merrill, Seligman.

Honorary Degrees Committee. Messrs. Cadigan, Gellhorn, Hastie (Chairman), Plimpton, Roberts, Seligman.

Fogler Shakespeare Library Committee. Messrs. Colgan, Hastie, Plimpton (Chairman), Roberts, Seligman, Shinn.

Committee on Fraternities and Student Life. Messrs. Beitzel, Cadigan, Colgan, DeBevoise, Gellhorn (Chairman), Hastie, Knight, Merrill, Shinn, Truman.

Compensation Committee. Messrs. Cadigan, Colgan, Gellhorn, Hill, Knight, Roberts, Seligman, Truman, Wirtz.

Committee on Development. Messrs. Beitzel, Colgan (Chairman), Hill, Knight, Merrill, Plimpton, Roberts.

The corporate name of the College is
THE TRUSTEES OF AMHERST COLLEGE

*Final committee assignments are made at the fall meeting of the Corporation.

Calvin Hastings Plimpton, *President of the College.* B.A. (1939) Amherst College; M.D. (1943), M.A. (1947) Harvard University; Med. Sc.D. (1951) Columbia University; LL.D. (1960) Williams College; LL.D. (1961) Wesleyan University; Sc.D. (1962) Rockford College; LL.D. (1962) Doshisha University; L.H.D. (1962) University of Massachusetts; Sc.D. (1963) Saint Mary's College; LL.D. (1963) St. Lawrence University; Litt.D. (1965) American International College; Sc.D. (1966) Trinity College; Sc.D. (1967) Grinnell College; Litt.D. (1969) Michigan State University.

Prosser Gifford, *Dean of the Faculty.* B.A. (1951) Yale University; B.A. (1953) Merton College, Oxford University; LL.B. (1956) Harvard Law School; Ph.D. (1964) Yale University.

EMERITI

Charles Woolsey Cole, *President, Emeritus.* B.A. (1927) Amherst College; A.M. (1928), Ph.D. (1931) Columbia University; L.H.D. (1942) Amherst College, (1951) University of Massachusetts, (1953) Trinity College; LL.D. (1946) Wagner College, (1946) Wesleyan University, (1946) Williams College, (1952) American International College, (1953) Doshisha University, (1954) Columbia University, (1960) Amherst College; Litt.D. (1948) Hamilton College; Sc.D. (1948) Clarkson College; LL.D. (1964) Emerson College.

George William Bain, *Samuel A. Hitchcock Professor of Mineralogy and Geology, Emeritus.* B.Sc. (1921), M.Sc. (1923) McGill University; M.A. (1923), Ph.D. (1927) Columbia University; M.A. (hon. 1941) Amherst College.

Ralph Alonzo Beebe, *Massachusetts Professor of Chemistry, Emeritus.* B.A. (1920) Amherst College; Ph.D. (1923) Princeton University.

Bailey Lefevre Brown, *Professor of Mathematics, Emeritus.* B.A. (1924) Amherst College; M.A. (1925) Princeton University.

Paul Witherspoon Eckley, *Professor of Physical Education, Emeritus.* B.A. (1917) Cornell University; M.A. (hon. 1949) Amherst College.

George Banks Funnell, *Professor of French, Emeritus.* B.A. (1924) Amherst College; M.A. (1928) Harvard University.

Gail Kennedy, *Henry C. Folger Professor of Philosophy, Emeritus.* B.A. (1922) University of Minnesota; Ph.D. (1928) Columbia University; M.A. (hon. 1948) Amherst College.

Michael Joseph Kennedy, *Associate Professor of Physical Education, Emeritus.*

Sterling Power Lamprecht, *Emily C. Jordan Folger Professor of Philosophy, Emeritus.* B.A. (1911) Williams College; M.A. (1912) Harvard University; B.D. (1915) Union Theological Seminary; Ph.D. (1918) Columbia University; M.A. (hon. 1934) Amherst College; Litt.D. (1957) Williams College.

Karl Loewenstein, *William Nelson Cromwell Professor of Jurisprudence and Political Science, Emeritus.* B.L. (1914), D.C.L. (1919) University of Munich; M.A. (hon. 1940) Amherst College.

Albert Ernest Lumley, *Professor of Physical Education.* B.A. (1925) Eastern Michigan College; M.A. (1938) Oberlin College; M.A. (hon. 1947) Amherst College.

Allison Wilson Marsh, *Professor of Hygiene and Physical Education, Emeritus.* B.A. (1913) Amherst College; M.Ed. (1925) Harvard University; L.H.D. (1963) Amherst College.

Charles Hill Morgan, *Professor of Fine Arts on the William R. Mead Foundation, Emeritus.* B.A. (1924), M.A. (1926), Ph.D. (1928) Harvard University; M.A. (hon. 1938) Amherst College; LL.D. (1960) University of Vermont.

Harold Henry Plough, *Edward S. Harkness Professor of Biology, Emeritus.* B.A. (1913) Amherst College; M.A. (1915), Ph.D. (1917) Columbia University; Sc.D. (1963) Amherst College.

Steven Martin Rostas, *Professor of Physical Education, Emeritus.* B.A. (1921) Br. Eötuös, Budapest; M.Ed. (1942) University of Massachusetts; M.A. (hon. 1961) Amherst College.

Edward Dwight Salmon, *Winkley Professor of History, Emeritus.* B.S. (1917) University of Rochester; M.A. (1923), Ph.D. (1934) Harvard University; M.A. (hon. 1938) Amherst College.

Oscar Emile Schotté, *Rufus Tyler Lincoln Professor of Biology, Emeritus.* B.S. (1920), Sc.D. (1925) University of Geneva; M.A. (hon. 1944) Amherst College.

Theodore Soller, *Professor of Physics, Emeritus.* B.A. (1922) Oberlin College; M.A. (1924), Ph.D. (1931) University of Wisconsin, M.A. (hon. 1946) Amherst College.

Atherton Hall Sprague, *Professor of Mathematics, Emeritus.* B.A. (1920) Amherst College; M.A. (1923), Ph.D. (1941) Princeton University.

George Rogers Taylor, *George D. Olds Professor of Economics, Emeritus.* Ph.B. (1921), Ph.D. (1929) University of Chicago; M.A. (hon. 1939) Amherst College.

Willard Long Thorp, *Professor of Economics, Emeritus.* B.A. (1920) Amherst College; M.A. (1921) University of Michigan; Ph.D. (1924) Columbia University; LL.D. (1935) Marietta College, (1949) Amherst College, (1950) Albright College, (1960) University of Massachusetts, (1960) University of Michigan.

Charles Hansen Toll, *Professor of Philosophy and Psychology, Emeritus.* B.A. (1904) Hamilton College; M.A. (1905) Harvard University; Ph.D. (1909) University of Freiburg; M.A. (hon. 1934) Amherst College.

Frederick King Turgeon, *Professor of French, Emeritus.* B.A. (1923) Bowdoin College; M.A. (1924), Ph.D. (1930) Harvard University; M.A. (hon. 1940) Amherst College.

PROFESSORS

Hugh George Jeffrey Aitken,* *Professor of Economics.* B.A. (1943), M.A. (1947) St. Andrews University; M.A. (1948) University of Toronto; Ph.D. (1951) Harvard University; M.A. (hon. 1966) Amherst College.

Theodore Baird,* *Samuel Williston Professor of English.* B.A. (1921) Hobart College; M.A. (1922), Ph.D. (1929) Harvard University; M.A. (hon. 1939) Amherst College.

Bruce Buzzell Benson,† *Professor of Physics.* B.A. (1943) Amherst College; M.S. (1945), Ph.D. (1947) Yale University.

Norman Birnbaum, *Professor of Sociology.* B.A. (1947) Williams College; M.A. (1951) Harvard University; M.A. (1960) Oxford University; Ph.D. (1958) Harvard University; M.A. (hon. 1969) Amherst College.

Robert Charles Birney, *Visiting Professor of Psychology.* B.A. (1952) Wesleyan University; M.A. (1953), Ph.D. (1955) University of Michigan; M.A. (hon. 1965) Amherst College.

Walter Leroy Boughton, *Stanley King Professor of Dramatic Arts and Director of Kirby Memorial Theater.* B.A. (1941), M.A. (1949) Brown University; M.F.A. (1951) Yale University; M.A. (hon. 1964) Amherst College.

Robert Hermann Breusch,* *Professor of Mathematics.* Ph.D. (1932) University of Feiburg; M.A. (hon. 1954) Amherst College.

*On leave 1969–70.
†On leave first semester 1969–70.

Gerald Patrick Brophy, *Professor of Geology.* B.A. (1951), M.A. (1953), Ph.D. (1954) Columbia University; M.A. (hon. 1968) Amherst College.

Lincoln Pierson Brower, *Professor of Biology.* B.A. (1953) Princeton University; Ph.D. (1957) Yale University; M.A. (hon. 1968) Amherst College.

Stephen Brown, *College Physician & Parmly Billings Professor of Hygiene.* B.A. (1928) Amherst College; M.D. (1932) Yale University.

William Calvin Cannon, *Professor of Spanish.* B.A. (1952) Baylor University; M.A. (1953), Ph.D. (1958) Tulane University; M.A. (hon. 1969) Amherst College.

Jeffrey James Carre, *Professor of Romance Languages.* B.A. (1940) Bowdoin College; Ph.D. (1950) Columbia; M.A. (hon. 1964) Amherst College.

Richard John Cody,* *Professor of English.* B.A. (1952) University of London (University College, Southampton); M.A. (1958), Ph.D. (1961) University of Minnesota; M.A. (hon. 1968) Amherst College.

Arnold Collery, *Professor of Economics.* B.A. (1950) University of Buffalo; Ph.D. (1958) Princeton University; M.A. (hon. 1964) Amherst College.

Henry Steele Commager, *Winthrop H. Smith Professor of American History.* Ph.B. (1923), M.A. (1924), Ph.D. (1928) University of Chicago; M.A. (hon. 1947) Cambridge University, (hon. 1952) Oxford University, (hon. 1957) Amherst College; Litt.D. (1958) Washington College, (1958) Ohio Wesleyan University, (1959) Monmouth College; Ed.D. (1960) Rhode Island College of Education; LL.D. (1960) Brandeis University, (1960) Michigan State University, (1962) Franklin and Marshall College; D.Litt. (1962) Cambridge University; L.H.D. (1962) University of Hartford, (1963) University of Puget Sound; Honorary Fellow, Peterhouse; D.C.L. (1964) Alfred University; LL.D. (1964) University of Pittsburgh; Litt.D. (1965) Marymont College; D.H.L. (1966) Carlton College; LL.D. (1967) Marietta College.

Haskell Robert Coplin, *Professor of Psychology and Student Counselor.* B.A. (1947), M.A. (1948), Ph.D. (1951) University of Michigan; M.A. (hon. 1957) Amherst College.

George Armour Craig, *Professor of English.* B.A. (1937) Amherst College; M.A. (1938), Ph.D. (1947) Harvard University.

Benjamin Haile DeMott, *Professor of English.* B.A. (1949) George Washington University; M.A. (1950), Ph.D. (1953) Harvard University; M.A. (hon. 1960) Amherst College.

*On leave 1969–70.

Colby Wilson Dempesy, *Professor of Physics.* B.A. (1952) Oberlin College; M.A. (1955), Ph.D. (1957) Rice Institute; M.A. (hon. 1968) Amherst College.

Henry Frederick Dunbar, Jr., *Professor of Physical Education.* B.A. (1944) Amherst College; M.A. (1949) Teachers College, Columbia University; Ph.D. (1950) Columbia University.

Joseph Esptein, *Professor of Philosophy.* B.S.S. (1939) City College of New York; Ph.D. (1951) Columbia University; M.A. (hon. 1961) Amherst College.

Richard Martin Foose, *Professor of Geology.* B.S. (1937) Franklin and Marshall College; M.S. (1939) Northwestern University; Ph.D. (1942) Johns Hopkins University; M.A. (hon. 1964) Amherst College.

Reginald Foster French, *Professor of Romance Languages.* B.A. (1927) Dartmouth College; M.A. (1928), Ph.D. (1934) Harvard University; M.A. (hon. 1947) Amherst College.

Prosser Gifford, *Professor of History and Dean of the Faculty.* B.A. (1951) Yale University; B.A. (1953) Merton College, Oxford University; LL.B. (1956) Harvard Law School; Ph.D. (1964) Yale University; M.A. (hon. 1969) Amherst College.

Elmo Giordanetti, *Professor of Romance Languages.* B.A. (1951) Bowdoin College; M.A. (1954), Ph.D. (1959) Princeton University; M.A. (hon. 1968) Amherst College.

Joel Ethan Gordon, *Professor of Physics.* B.A. (1952) Harvard University; Ph.D. (1958) University of California; M.A. (hon. 1969) Amherst College.

Theodore Phinney Greene,† *Professor of History.* B.A. (1943) Amherst College; M.A. (1948) Columbia University.

John Burt Halsted,‡ *Professor of History.* B.A. (1948), M.A. Wesleyan University; Ph.D. (1954) Columbia University; M.A. (hon. 1966) Amherst College.

Edward Robert Harrison, *Professor, Four-College Department of Astronomy.* Fellow, Institute of Physics (England); Fellow, Royal Astronomical Society.

Alfred Freeman Havighurst, *Professor of History.* B.A. (1925) Ohio Wesleyan University; M.A. (1928) University of Chicago; Ph.D. (1936) Harvard University; M.A. (hon. 1955) Amherst College.

†On leave first semester 1969–70.
‡On leave second semester 1969–70.

Hugh Dodge Hawkins,* *Professor of History and American Studies.* B.A. (1950) DePauw University; Ph.D. (1954) Johns Hopkins University; M.A. (hon. 1969) Amherst College.

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William Michael Hexter, *Professor of Biology.* B.A. (1949) University of California (Berkeley); M.A. (1951), Ph.D. (1953) University of California; M.A. (hon. 1966) Amherst College.

Ishag Husaini, *Visiting Professor of Religion.* B.A. (1932), Ph.D. (1934) University of London.

William Michael Irvine, *Professor, Four-College Department of Astronomy.* B.A. (1957) Pomona College; Ph.D. (1961) Harvard University.

Ernest Alfred Johnson, *Professor of Romance Languages.* B.A. (1939) Amherst College; M.A. (1940) University of Chicago; M.A. (1941), Ph.D. (1950) Harvard University.

George Anthony Kateb, *Professor of Political Science.* B.A. (1952), M.A. (1953), Ph.D. (1960) Columbia University; M.A. (hon. 1967) Amherst College.

William Elmer Kennick, *Professor of Philosophy.* B.A. (1945) Oberlin College; Ph.D. (1952) Cornell University; M.A. (hon. 1962) Amherst College.

George Wallace Kidder, *Stone Professor of Biology.* B.A. (1926) University of Oregon; M.A. (1929) University of California; Ph.D. (1932) Columbia University; M.A. (hon. 1949) Amherst College; Sc.D. (hon. 1950) Wesleyan University.

Theodore Koester, *Professor of Psychology.* B.A. (1936) Wesleyan University; B.D. (1942) Hartford Theological Seminary; Ph.D. (1945) Columbia University; M.A. (hon. 1950) Amherst College.

Heinz Kohler, *Professor of Economics.* B.A. (1956) Free University of Berlin; M.A. (1958), Ph.D. (1961) University of Michigan; M.A. (hon. 1969) Amherst College.

Allen Kropf, *Professor of Chemistry.* B.S. (1951) Queens College; Ph.D. (1954) University of Utah; M.A. (hon. 1969) Amherst College.

Earl Latham, *Joseph B. Eastman Professor of Political Science.* B.A. (1931), Ph.D. (1939) Harvard University; M.A. (hon. 1949) Amherst College.

Leo Marx,* *Professor of English and American Studies.* B.S. (1941), Ph.D. (1949) Harvard University; M.A. (hon. 1959) Amherst College.

*On leave 1969–70.

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Ralph Cleland McGoun, Jr., *Professor of Dramatic Arts.* B.A. (1927), M.A. (1929) Amherst College.

Newton Felch McKeon, *Professor of English & Director of Robert Frost Library,* B.A. (1926) Amherst College.

Henry George Mishkin, *Professor of Music.* B.A. (1931) University of California; M.A. (1937), Ph.D. (1938) Harvard University; M.A. (hon. 1954) Amherst College.

John Andrew Moore, *Class of 1880 Professor of the Classics.* B.A. (1938), M.A. (1940) Harvard University; M.A. (hon. 1958) Amherst College.

F(red) Bruce Morgan, *Professor of Religion.* B.S. (1939) Maryville College; Th.B. (1942), Th.D. (1958) Princeton Theological Seminary; M.A. (hon. 1963) Amherst College.

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Murray Bisbee Peppard, *Professor of German.* B.A. (1939) Amherst College; M.A. (1942), Ph.D. (1948) Yale University.

Donald Stevenson Pitkin, *Professor of Anthoropology.* B.A. (1947), M.A. (1950), Ph.D. (1954) Harvard University; M.A. (hon. 1966) Amherst College.

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Charles Ensign Rogers, *Professor of Fine Arts and Dramatic Arts.* B.A. (1927) Albion College; M.A. (1931) Columbia University; M.A. (hon. 1961) Amherst College.

Robert Horton Romer,* *Professor of Physics.* B.A. (1952) Amherst College; Ph.D. (1955) Princeton University.

Edwin Charles Rozwenc, *Dwight W. Morrow Professor of American History.* B.A. (1937) Amherst College; M.A. (1938), Ph.D. (1941) Columbia University.

Ramon Eduardo Ruiz, *Visiting Professor of History.* B.A. (1947) San Diego State College; M.A. (1948) Claremont College; Ph.D. (1954) University of California (Berkeley).

Anthony Scenna, *Professor of German.* B.A. (1927) Amherst College; M.A. (1929), Ph.D. (1937) Columbia University.

Carl Nelson Schmalz, Jr.,‡ *Professor of Fine Arts.* B.A. (1948), M.A. (1949), Ph.D. (1958) Harvard University; M.A. (hon. 1969) Amherst College.

Waltraut Carola Seitter, *Professor, Four-College Department of Astronomy.* M.A. (1955) Smith College; Ph.D. (1962) University of Bonn.

Marc Stamm Silver, *Professor of Chemistry.* B.A. (1955) Harvard University; Ph.D. (1959) California Institute of Technology; M.A. (hon. 1969) Amherst College.

John Donovan Strong, *Professor, Four-College Department of Astronomy.* B.A. (1926) University of Kansas; Ph.D. (1930) University of Michigan.

Dudley Herbert Towne, *Professor of Physics.* B.S. (1947) Yale University; M.A. (1949), Ph.D. (1953) Harvard University; M.A. (hon. 1964) Amherst College.

Frank Anderson Trapp, *Professor of Fine Arts.* B.A. (1943) Carnegie Institute of Technology; M.A. (1947) University of Pittsburgh; Ph.D. (1951) Harvard University; M.A. (hon. 1963) Amherst College.

John William Ward, *Professor of History and American Studies.* A.B. (1947) Harvard College; M.A. (1950), Ph.D. (1953) University of Minnesota; M.A. (hon. 1965) Amherst College.

Colston Estey Warne,* *Professor of Economics.* B.A. (1920), M.A. (1921) Cornell University; Ph.D. (1925) University of Chicago; M.A. (hon. 1942) Amherst College.

Robert Byron Whitney, *George H. Corey Professor of Chemistry.* B.A. (1924), Ph.D. (1927) University of Minnesota; M.A. (hon. 1944) Amherst College.

*On leave 1969–70.
‡On leave second semester 1969–70.

Richard Eugene Wilson, *Professor of Physical Education.* B.A. (1934), Midland College; B.P.E. (1937), M.Ed. (1938) Springfield College; M.A. (hon. 1960) Amherst College.

Albert Elmer Wood, *Professor of Biology.* B.S. (1930) Princeton University; M.A. (1932), Ph.D. (1935) Columbia University; M.A. (hon. 1954) Amherst College.

Henry Thomas Yost, Jr.,* *Professor fo Biology.* B.A. (1947), Ph.D. (1951) The Johns Hopkins University; M.A. (hon. 1965) Amherst College.

Benjamin Munn Ziegler, *Bertrand Snell Professor of Political Science.* B.A. (1928) New York University; LL.B. (1931), M.A. (1933), Ph.D. (1935) Harvard University; M.A. (hon. 1952) Amherst College.

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Duane W. Bailey, *Associate Professor of Mathematics.* B.A. (1957) Washington State University; M.A. (1959), Ph.D. (196) University of Oregon.

Ralph Everett Beals, *Associate Professor of Economics,* B.S. (1958) University of Kentucky; M.A. (1959) Northwestern University; Ph.D. (1969) Massachusetts Institute of Technology.

John Arthur Cameron, *Associate Professor of English.* B.A. (1952), M.A. (1957), Ph.D. (1963) Yale University; Diploma (1955) University of Edinburgh.

Otis Cary, *Associate Professor on leave for service at Doshisha University and Director of Amherst House, Doshisha University.* B.A. (1946) Amherst College; M.A. (1951) Yale University.

Frederic Lawrence Cheyette, *Associate Professor of History.* A.B. (1953) Princeton University; M.A. (1954), Ph.D. (1959) Harvard University.

Rafael Leon Cortada, *Visting Associate Professor of History.* A.B. (1955) Fordham University; M.A. (1958) Columbia University; Ph.D. (1967) Fordham University.

Peter Czap, Jr., *Associate Professor of History.* B.A. (1953) Rutgers University; Ph.D. (1959) Cornell University.

James Quincy Denton, *Associate Professor of Mathematics.* B.S. (1951) California Institute of Technology; M.S. (1958), Ph.D. (1962), University of Oregon.

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*On leave 1969–70.

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G(eorge) Richard Huguenin, *Associate Professor, Four-College Department of Astronomy.* B.S. (1959) Massachusetts Institute of Technology; Ph.D. (1964) Harvard University.

Edward Renton Leadbetter, *Associate Professor of Biology.* B.S. (1955) Franklin and Marshall College; Ph.D. (1959) University of Texas.

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Lewis Seymour Mudge, *Associate Professor of Philosophy & Religion.* B.A. (1951), B.D. (1955), Ph.D. (1961) Princeton University; B.A. (1954), M.A. (1958) Oxford University.

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*On leave 1969–70.
†On leave first semester 1969–70.

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Lawrence Alan Babb, *Assistant Professor of Anthropology.* B.A. (1963) University of Michigan; M.A. (1965), Ph.D. (1969) University of Rochester.

Annette Barnes, *Visiting Assistant Professor of Humanities.* B.A. (1960) Brooklyn College; M.A. (1964) Harvard University; Ph.D. (1967) Brandeis University.

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Edward Scudder Belt, *Assistant Professor of Geology.* B.A. (1955) Williams College; M.A. (1957) Harvard University; Ph.D. (1963) Yale University.

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‡On leave second semester 1969–70.

George Albert Brinton, *Assistant Professor of English.* B.A. (1964) Cornell University; M.A. (1966), Ph.D. (1969) University of Washington.

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*On leave 1969–70.

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David Joe Schneider, *Assistant Professor of Psychology.* B.A. (1962) Wabash College; Ph.D. (1966) Stanford University.

Jeffrey Franklin Sicha, *Assistant Professor of Philosophy.* B.A. (1962) Oberlin College; D. Phil. (1966) Oxford University.

Richard Allen Snellgrove, *Assistant Professor of Chemistry.* B.A. (1959) Amherst College; Ph.D. (1965) University of Wisconsin.

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William Chase Taubman, *Assistant Professor of Political Science.* B.A. (1962) Harvard College; M.A. (1965), Ph.D. (1969) Columbia University.

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Peter Alexis Valberg, *Assistant Professor of Physics.* A.B. (1964) Taylor University; M.A. (1966), Ph.D. (1969) Harvard University.

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Carroll William Westfall,* *Assistant Professor of Fine Arts.* B.A. (1961) University of California (Berkeley); M.A. (1963) University of Manchester, England; Ph.D. (1967) Columbia University.

Donald Franklin Wheelock, *Assistant Professor of Music.* A.B. (1962) Union College; M.Mus. (1966) Yale University.

*On leave 1969–70.

Howard Joseph Wilcox, *Assistant Professor of Mathematics.* B.A. (1961) Hamilton College; Ph.D. (1966) University of Rochester.

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Steven Alan Zemelman, *Assistant Professor of English.* B.A. (1961), M.A. (1963) Washington University.

William Frederick Zimmerman,* *Assistant Professor of Biology.* B.A. (1960), Ph.D. (1966) Princeton University.

INSTRUCTORS

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Ernest Dewey May, *Instructor in Music.* A.B. (1964) Harvard College; M.F.A. (1968) Princeton University.

Dale Earl Peterson, *Instructor in English and Russian.* B.A. (1963) Harvard University; M.A. (1965) Yale University.

Nathaniel Reed,‡ *Instructor in American Studies and Assistant Dean.* B.A. (1955), Ph.D. (1964) Yale University.

Samuel Arndt Roberson, *Instructor in Fine Arts.* B.A. (1961), M.A. (1963) Williams College.

Ellen Ryerson, *Instructor in American Studies.* B.A. (1964) University of Wisconsin; M.A. (1966) Yale University.

Gordon Clark Schloming, *Instructor in Political Science.* B.A. (1966) Pomona College.

ASSOCIATES

Philip Truman Ives, PH.D., *Biology*
Annick Grant, *French*

RESEARCH ASSOCIATES

Lenette Rogers Atkinson, PH.D., *Biology*
Jane VanZandt Brower, PH.D., *Biology*
Raymond Coppinger, PH.D., *Biology*
Virginia Dewey, PH.D., *Biology*

*On leave 1969–70.
‡On leave second semester 1969–70.

ASSISTANTS

Michel Claude Bar, *French*
Philippe C. Delamare, *French*
Dominique Delassus, *French*
Pierre Gorre, *French*
Cesar Pires, *Spanish*
Manfred Wegener, *German*

FACULTY COMMITTEES

Committee of Six. President Plimpton (Chairman, ex officio), Dean Gifford (Secretary, ex officio), Professors Denton, Hexter, Koester, Pitkin, Towne, and Ward.

Committee on Admission and Scholarships. President Plimpton (Chairman), Deans Routh, Wall, and Wilson (Secretary), Professors J. Moore, Snellgrove, Starr, and Townsend; Messrs. J. T. Kelly '70, C. R. Spivack '71, and C. P. Ward, Jr. '70.

Committee on College Facilities. Dean Gifford (Chairman), Mr. Minot Grose (Secretary), Professors Carre, Collery, R. Grose, and Trapp; Messrs. Heidrich and Hertzfeld.

Computer Committee. Professors Denton (Chairman), Duffy, R. Grose, Lees, Mauldon, Nicholson, Offenhartz, and Schneider.

Committee on Educational Policy. Professors Beals, Cannon, Cheyette, Dempesy (Chairman), and Heath; Messrs. C. Tucker '70 and J. Willard '70. One additional student to be elected in the fall of 1969.

Fellowship Committee. President Plimpton (Chairman), Deans Gifford (Secretary) and Routh, Professors Craig, Hexter, Kohler, and Ziegler.

Committee on Field Study. Dean Gifford, Professors Guttmann, Gordon, and R. Moore.

Committee on Guidance and Counseling. Dean Ward (Chairman), Dr. Stephen Brown, Deans Littlefield, Reed and Routh, Professors Coplin and Kuntz.

Committee on Honorary Degrees. Professors Latham (Chairman), Towne, and Ward.

Committee on Independent Study. Dean Gifford, Professors DeMott, Epstein (Chairman), and Kohler.

Committee on Intercollegiate Athletics. President Plimpton (Chairman), Dean Gifford (Secretary), Professors Brophy, Clark, Dunbar, McCabe, Mehr, and Ziegler.

Committee on Interdisciplinary and Special Studies. Dean Gifford, Professors Birnbaum, Craig (Chairman), and Mead.

Lecture Committee. Professors Bierman, Duffy, and Pitkin (Chairman).

Library Committee. Professors Czap, Fink, Havighurst, McKeon (ex officio), J. Moore (Chairman), Pritchard, and Starr; Mr. Laugher (ex officio).

Lucius R. Eastman Fund Committee. Professors Peppard (Chairman), Schneider, and Taubman.

Fellows

W. Andrew Achenbaum, '68. *Amherst Memorial Fellow in American Studies.* University of Pennsylvania.

Dennis Aftergut, '69. *Forris Jewett Moore Fellow in American History.*

Richard Allan Aronson, '69. *John Woodruff Simpson Fellow in Medicine.* University of Rochester.

Michael C. Behnke, '66. *Amherst Memorial Fellow in American Civilization.* University of Pennsylvania.

Robert Edward Berglund, '69. *Edward Poole Lay Fellow in Music.* Smith College.

Robert Horatio Brown, '69. *John Woodruff Simpson Fellow in Medicine.* Harvard Medical School.

James R. Cocroft, '69. *Amherst Memorial Fellow in International Relations.* University of Pennsylvania.

Stephen Weaver Collins, '69. *Roland Wood Fellow in Drama.*

William Warren Daniel, Jr., '65. *Amherst Memorial Fellow in Theology.* The Episcopal Theological School.

Bogoljub Pavle Davidovac, '69. *John Woodruff Simpson Fellow in Architecture.* Stanford University.

Robert Jeffrey Dwyer, '69. *John Woodruff Simpson Fellow in Law.* Harvard Law School.

Robert Allen Fein, '69. *Amherst Memorial Fellow in Clinical Psychology.* Harvard University.

Jack Mark Fishaut, '69. *John Woodruff Simpson Fellow in Medicine.* University of California, San Diego.

Eugene Richard Gaddis, '69. *Forris Jewett Moore Fellow in English and French History.* University of Pennsylvania.

Rafael Sergio Grasso, '68. *Amherst Memorial Fellow in Engineering and Applied Science.* Columbia University.

Timothy Steiner Hardy, '69. *John Woodruff Simpson Fellow in Law.* Yale Law School.

Robert Wayne Ihne, '69. *Forris Jewett Moore Fellow in Philosophy.* Columbia University.

William Barry Keating, '69. *Roland Wood Fellow in Drama.* New York University.

Thomas E. Kelly, '69. *The Edward Hitchcock Fellow in Physical Education.* University of Massachusetts.

Michael Frederick Kraemer, '69. *John Woodruff Simpson Fellow in Law.* University of Pennsylvania Law School.

Jurgen Wilhelm Liias, '69. *Amherst Memorial Fellow in Theology and the George Stebbins Moses Memorial Fellow in Theology.* The Episcopal Theological School.

John DeWald Lipscomb, '69. *Forris Jewett Moore Fellow in Chemistry.* University of Illinois.

Donald John Mastronarde, '69. *Forris Jewett Moore Fellow in "Greats".* Wadham College, Oxford University.

William Lee Meadow, '69. *John Woodruff Simpson Fellow in Medicine.* University of Pennsylvania Medical School.

Alexander Gordon Murray, '69. *John Woodruff Simpson Fellow in Law.* Yale Law School.

Stephen Edward Neel, '69. *John Woodruff Simpson Fellow in Law.* Harvard Law School.

Yoshio Ozawa, '69. *John Woodruff Simpson Fellow in History.* University of Massachusetts.

Jerald Van Reneau, '67. *Rufus B. Kellogg University Fellow in English.* Harvard University.

Robert David Riskind, '68. *Charles B. Rugg Fellow in Law.* University of Chicago Law School.

Joseph Henry Sellin, '69. *John Woodruff Simpson Fellow in Medicine.* Albert Einstein School of Medicine.

Gregory John Shaffer, '69. *Amherst Memorial Fellow in Theology.* Mansfield College, Oxford University, England.

John Bard Sharefkin, '66. *John Woodruff Simpson Fellow in Medicine.* Tufts University Medical School.

Jay Ross Silverman, '69. *Henry P. Field Fellow in English.* University of Virginia.

Cuthbert Ormond Simpkins, '69. *John Woodruff Simpson Fellow in Medicine.* Harvard Medical School.

Douglas Wyatt Sterner, '69. *Henry P. Field Fellow in History, the Amherst Memorial Fellow in History, and the Forris Jewett Moore Fellow in History.* Rutgers University.

Robert Walter Stratton, '68. *Amherst Memorial Fellow in Theology.* The General Theological Seminary.

Jorge Luis Tapia, '68. *John Woodruff Simpson Fellow in Dentistry.* University of Maryland.

Charles Maris Tatum, Jr., '69. *Forris Jewett Moore Fellow in Organic Chemistry.* University of California, Los Angeles.

Jonathan Marvin Tobis, '69. *Forris Jewett Moore Fellow in Medicine and Chemical Research.* Albert Einstein School of Medicine.

Stephen G. Ward, '69. *Amherst Memorial Fellow in Architecture.* University of Pennsylvania Architectural School.

Emory Wallace Waters, '69. *Edward Poole Lay Fellow in Music.* New England Conservatory.

Michael Stuart Wayne, '69. *Forris Jewett Moore Fellow in History.* Cambridge University.

Officers of Administration

Calvin Hastings Plimpton, *President of the College.* B.A. (1939) Amherst College; M.D. (1943), M.A. (1947) Harvard University; Med. Sc.D. (1951) Columbia University; LL.D. (1960) Williams College; LL.D. (1961) Wesleyan University; Sc.D. (1962) Rockford College; LL.D. (1962) Doshisha University; L.H.D. (1962) University of Massachusetts; Sc.D. (1963) Saint Mary's College; LL.D. (1963) St. Lawrence University; Litt.D. (1965) American International College; Sc.D. (1966) Trinity College; Sc.D. (1967) Grinnell College; Litt.D. (1969) Michigan State University.

Prosser Gifford, *Dean of the Faculty.* B.A. (1951) Yale University; B.A. (1953) Merton College, Oxford University; LL.B. (1956) Harvard Law School; Ph.D. (1964) Yale University.

Eugene Smith Wilson, *Dean of Admission.* B.A. (1929) Amherst College.

Robert Appleby Ward, *Dean of Students.* B.A. (1957) Amherst College; Ed.M. (1966) Harvard University.

Edward Baker Wall, *Associate Dean of Admission.* B.A. (1956) Yale University.

Nathaniel Reed,‡ *Assistant Dean.* B.A. (1955), Ph.D. (1964) Yale University.

Donald McMillan Routh, *Assistant Dean.* B.A. (1958) Amherst College; M.A.T. (1960) Johns Hopkins University.

Henry Miller Littlefield, *Assistant Dean.* B.A. (1954), M.A. (1959), Ph.D. (1967), Columbia University.

Robert Emmett Simpson, Jr,. *Assistant to the Dean of Admission on the Mayo-Smith Teaching Grant.* B.A. (1969) Amherst College.

Robert Freeman Grose, *Registrar.* B.A. (1944), M.S. (1947), Ph.D. (1953) Yale University.

Kurt Maximilian Hertzfeld, *Treasurer.* B.A. (1941), M.B.A. (1942) Harvard University; M.A. (hon. 1969) Amherst College.

Minot Grose, *Business Manager and Assistant Treasurer.* B.A. (1936) Amherst College.

George Burnham May, *Comptroller and Assistant Treasurer.* B.A. (1946) Amherst College.

Richard Edward Green, *Assistant Comptroller.* B.B.A. (1966) Western New England College.

George Balfour Dunnington, Jr., *Manager of the Computer Center and Assistant Comptroller.* B.S. (1960) Babson Institute of Business Administration.

‡On leave second semester 1969-70.

AMHERST COLLEGE

David Frederick Howland, *Personnel Officer.* B.A. (1950) Hofstra University.

John Lewis Callahan, Jr., *Director of Development.* B.A. (1955) Dartmouth College.

James Alfred Guest, *Secretary of the Alumni Council.* B.A. (1933) Amherst College; LL.B. (1936) Yale University.

John W(ork) G(arrett) Phillips, *Assistant to the Secretary of the Alumni Council.* B.A. (1969) Amherst College.

Horace Wilson Hewlett, *Secretary of the College and Director of Publications.* B.A. (1936) Amherst College; M.A. (1941) Yale University.

H(omer) Evan Snyder, *Assistant Secretary of the College.* B.A. (1958) Amherst College.

William Thorndike Endicott, *Assistant to the Secretary of the College.* B.A. (1968) Harvard College.

Otis Cary, *Director of Amherst House, Doshisha University.* B.A. (1946) Amherst College; M.A. (1951) Yale University.

Robert Herman Heidrich, *College Engineer and Superintendent of Buildings and Grounds.* A.E.E. (1927) Newark College of Engineering; P.E. (1945) New York University; M.A. (hon. 1962) Amherst College.

Walter Charles Markert, *Assistant Superintendent of Buildings & Grounds.* B.S. (1931) Springfield College.

Gordon Benjamin Bridges, *Director of Dining Halls.* M.A. (hon. 1954) Amherst College.

Haskell Robert Coplin, *Student Counselor.* B.A. (1947), M.A. (1948), Ph.D. (1951) University of Michigan.

Stephen Brown, *College Physician.* B.A. (1928) Amherst College; M.D. (1932) Yale University.

Thomas Clifford Wilson, *Associate College Physician.* B.A. (1950) West Virginia University; M.D. (1960) Medical College of Virginia.

MEAD ART BUILDING

Frank Anderson Trapp, PH.D., *Director*

Charles Ensign Rogers, M.A., *Assistant Director*

Margaret Cecilia Toole, B.A., *Curator*

ADVISORY COMMITTEE ON ACQUISITIONS

Louisa Dresser, B.A.
Curator, Worcester Art Museum, Worcester, Massachusetts

Charles Hill Morgan, PH.D., L.H.D.
Professor Emeritus of Fine Arts on the William R. Mead Foundation, Amherst, Massachusetts

Daniel Catton Rich, PH.D.,
Director, Worcester Art Museum, Worcester, Massachusetts

Charles Henry Sawyer, M.A., L.H.D.
Professor of Fine Arts, University of Michigan,
Ann Arbor, Michigan

Calvin Hastings Plimpton, M.D., LL.D.
President of the College, ex officio, Amherst, Massachusetts

Roy R. Neuberger
President, American Federation of Arts, New York, New York

Philip Hofer
Curator, Dept. of Printing and Graphic Arts, Harvard University,
Cambridge, Massachusetts

A. M. Adler
Director, Hirschl and Adler Galleries, New York, New York

THE ROBERT FROST LIBRARY

Newton Felch McKeon, B.A., *Director*

Charles Theodore Laugher, PH.D., *Associate Director*

Ruth Marie Erit, B.A., *Order Librarian*

Floyd Samuel Merritt, M.A., S.M., *Reference Librarian*

J. Richard Phillips, B.A., *Special Collections Librarian*

S. Joy Williams, B.A., M.A. in L.S., *Chief Cataloguer*

Gertrude Burgess Weir, B.A., S.M., *Head of Circulation*

Elinor Richards, B.A., A.M.L.S., *Senior Cataloguer*

Nancy Hathaway Buck, B.A., M.S. in L.S., *Science Librarian*

Hertha Banfield, *Serials Librarian*

Eleanor Freisem, B.A., M.S. in L.S., *Assistant Reference Librarian*

Carol Porter Baldwin, *Cataloguer*

Mary Elizabeth Beattie, B.A., M.L.S., *Cataloguer*

KIRBY MEMORIAL THEATER

Walter Leroy Boughton, M.F.A., *Director*

Charles Ensign Rogers, M.A., *Designer*

Ralph Cleland McGoun, Jr., M.A., *Technical Director*

THE PRATT MUSEUM OF GEOLOGY

Gerald Patrick Brophy, PH.D., *Curator*
Albert Elmer Wood, PH.D., *Associate Curator*
Edward S. Belt, PH.D., *Associate Curator*

COMPUTER CENTER

George B. Dunnington, B.S., *Manager*
Clela B. Reeves, B.A., M.A., *Programmer/Analyst*
David Hornfischer, B.A., *Programmer/Analyst*

AMHERST COLLEGE WILDLIFE SANCTUARY

Walter Charles Markert, B.S., *Director*

MABEL LOOMIS TODD FOREST

Lincoln Pierson Brower, PH.D., *Curator*

RELIGIOUS ADVISORS

The Rev. James Clark, B.D.
Advisor to Protestant Students

The Rev. Richmond K. Greene, B.D.
Advisor to Protestant Students

The Rt. Rev. Monsig. David J. Power
Advisor to Roman Catholic Students

The Rev. J. Joseph Quigley
Advisor to Roman Catholic Students

Rabbi Yechiael Lander
Advisor to Jewish Students

STUDENT HEALTH SERVICE

Mary Margaret Barkowski, R.N.
Supervisor of Student Health Office

Marjorie Ruth Crossman, R.N.
Assistant Supervisor of Student Health Office

Helen Bolt Stimson, R.N.
Supervisor of the Infirmary

ADVISOR ON CHARITABLE FUND AWARDS

Frank Learoyd Boyden, SC.D., PD.D., LITT.D., L.H.D., LL.D.

FIVE-COLLEGES INCORPORATED

North Burn, PH.D., *Five-College Co-ordinator*
Professor Robert B. Whitney, *Amherst College Deputy*

II

AMHERST COLLEGE
ADMISSION
REGULATIONS
TUITION AND FEES
FINANCIAL AID
DEGREE REQUIREMENTS
INTELLECTUAL RESPONSIBILITY

James and Stearns Dormitories and Mead Art Building

Amherst College

AMHERST was founded in 1821 as an independent liberal arts college for "the education of indigent young men of piety and talents for the Christian ministry." It has never been connected, however, with any church or sect. Its charter, granted by the Commonwealth of Massachusetts in 1825, bans tests of religion in choosing students and teachers.

Among Amherst's founders were Noah Webster, the lexicographer, and Samuel Fowler Dickinson, grandfather of the poet Emily. The College received its initial support from many residents of the town from which it takes its name. (The town, which was incorporated in 1759, was named for General Jeffery Amherst, then Commander-in-chief of British forces in the New World and protector of the colonies in the French and Indian War.) The College has enjoyed a long and close association with the community, particularly with such poets and writers as Emily Dickinson, Helen Hunt Jackson, David Grayson (Ray Stannard Baker), and Robert Frost.

The campus is situated on a hill adjacent to the central town common. The surrounding area is characterized by apple orchards and tobacco farms lying on the flat, fertile land of the Connecticut River Valley and by ranges of hills to the south and east. Nearby are towns and places whose names recall another age in the life of New England: Deerfield and Bloody Brook, Pelham and Daniel Shays Highway, Northampton and Jonathan Edwards' Church. A few miles away are three other institutions of higher learning: Smith and Mount Holyoke Colleges and the University of Massachusetts with which Amherst engages in a number of cooperative educational ventures. (These are described on page 55.) A fifth institution, Hampshire College, equidistant from the existing four from which it will receive advice and assistance, is being planned and is expected to open in 1970.

The College offers the bachelor of arts—and occasionally the master of arts—degree. It is concerned with study in the humanities, the social sciences, and the natural sciences and attempts to combine a broad education with knowledge of some field in depth. A new curriculum, adopted in the fall of 1966, introduces three one-semester interdepartmental courses (called Problems of Inquiry), and provides considerable flexibility in the selection of each student's program. Freshmen may select a major field of study on entrance; exceptionally qualified students may satisfy graduation requirements in three years; some may engage in independent study free of formal courses in their junior and senior years; honors work—the intensive consideration of a limited subject—is encouraged.

Whatever the form of academic experience—lecture course, seminar, conference, studio, laboratory, independent study at various levels—intellectual competence and awareness of problems and methods are the goal of the

Amherst program, rather than the direct preparation for some profession. The new curriculum enables students to arrange programs for their own educational needs within established requirements. To assist undergraduates in their course selections a faculty Board of Advisors, representing all academic departments, has been created. Members of this Board provide such counsel as is requested, but the ultimate responsibility for a thoughtful program of study rests with the individual student.

All students subscribe to an honor code which makes them responsible for the intellectual integrity of their work. This is described on page 57.

A statement of graduation requirements and programs of study begins on page 50. A more detailed description of the curriculum may be obtained from the Office of Admission.

The College's faculty is engaged in two primary activities: first, the education of undergraduates, and, second, research and writing. Its 157 members hold degrees from colleges and universities throughout this country and abroad. Classes range in size from a lecture course of 150 to several courses of only two students; about 80 percent of the classes and sections have twenty-five students or less.

Amherst is equipped with considerable physical resources: a library of some 393,000 volumes, science laboratories, theater, gymnasium, swimming pool, skating rink, squash and tennis courts, playing fields, a museum of fine arts and another of natural sciences, a central dining hall where all students eat, dormitories, language laboratory, and classroom buildings. There are a wildlife sanctuary and a forest for the study of ecology, an observatory and planetarium, a computer center, and varied equipment for specialized scientific research. At Amherst, and at its neighboring institutions, there are extensive offerings of lectures, concerts, plays, films, and many other events. The College's endowment is approximately $75 million.

In the last few years Amherst has increased its enrollment from 1,000 to approximately 1,200 students. To accommodate these additional undergraduates and to provide improved facilities the College has recently completed a new dining hall, five new dormitories, and the Robert Frost Library. New buildings for science and music were completed in 1968 and an auditorium and expanded athletic facilities are being planned.

Amherst has a full program of intercollegiate athletics in most sports. Every freshman and sophomore is required to take part in a program of physical education to improve his fitness and allow him to participate in team and recreational sports. In addition, about 90 percent of the students participate in an organized program of intramural athletics.

Undergraduates may also take part in a variety of other extra-curricular activities: journalism, publishing, broadcasting, music, dramatics, and a wide assortment of specialized interests. Religious groups, working independently or through the religious advisors, maintain a program of worship services, Bible study, community service projects, and other activities.

Most Amherst students join one of the twelve social fraternities at the end of their freshman year. These organizations provide housing for many of their members and are the focus of social life after the first year. Since 1946 the fraternities have selected their members without consideration of race or religion, and since 1951 every student who has wanted to join a fraternity has had the opportunity to do so.

As the campus has grown so has the College's involvement with the world. In 1821 most students came to Amherst from nearby towns intending to become ministers or missionaries. Facilities were simple; for three years South College was Amherst's only building, housing dormitory, library, and classrooms. Today students come from most of the fifty states and many foreign countries and bring with them backgrounds and interests far different from those of the "indigent young men of piety and talents" who preceded them nearly a century and a half ago.

Instruction still adheres to the liberal arts and sciences, but world forces are now felt in the classroom and out. Modern transportation and communication have changed what was once a sleepy little New England village into a growing center of activity and concern. Involvement in research or in social and economic issues takes some students to many parts of the country and abroad—as it does most of their teachers as well. Civil rights issues and national policies have an impact on the campus that would have been unimaginable even a generation ago. Graduates for the most part continue their formal education to become teachers, physicians, lawyers, and businessmen. At Amherst, hopefully, they will have only begun their education at "commencement," but will have developed attitudes and values that will encourage them to participate thoughtfully and generously in the service of mankind.

PRESIDENTS OF AMHERST COLLEGE

1821–1823	Rev. Zephaniah Swift Moore, D.D.
1823–1845	Rev. Heman Humphrey, D.D.
1845–1854	Rev. Edward Hitchcock, D.D., LL.D.
1854–1876	Rev. William Augustus Stearns, D.D., LL.D.
1876–1890	Rev. Julius Hawley Seelye, D.D., LL.D.
1890–1899	Merrill Edwards Gates, PH.D., LL.D., L.H.D.
1899–1912	Rev. George Harris, D.D., LL.D.
1912–1924	Alexander Meiklejohn, PH.D., LL.D.
1924–1927	George Daniel Olds, LL.D.
1927–1932	Arthur Stanley Pease, PH.D., LL.D.
1932–1946	Stanley King, LL.D.
1946–1960	Charles Woolsey Cole, PH.D., L.H.D., SC.D., LITT.D., LL.D.
1960–	Calvin Hastings Plimpton, M.D., SC.D., D.M.S., L.H.D., LITT.D., LL.D.

AMHERST COLLEGE

FIVE COLLEGE COOPERATION

Amherst has an arrangement with Mount Holyoke College, Smith College, Hampshire College and the University of Massachusetts by which any of their regular courses is, under special circumstances, open to Amherst students. See page 55 for further information.

The oldest cooperative venture is the Hampshire Inter-Library Center (HILC) located now in the Goodell Library at the University. HILC, a separate legal entity, is a depository for research materials and learned journals which are beyond the reach of any of the four libraries operating independently. An FM radio station (WFCR, 88.5 mc.) is run cooperatively through the Western Massachusetts Broadcasting Council composed of representatives of the four institutions. Other cooperative activities include a joint Astronomy Department; courses in the History of Science and in Asian-African studies; a Ph.D. program; a Film Center; a common calendar of events; a committee on transportation; an Office for Teaching Assistance; and a Coordinator for cooperative projects.

North Burn, ph.d., *Coordinator*

The Folger Shakespeare Library

The Folger Shakespeare Library in Washington, D.C., was established by the will of Henry Clay Folger, of the class of 1879. Mr. Folger's original collection, which remains the nucleus of the Library's holdings, emphasized Shakespeare, Shakespeare's contemporaries, and the history of Shakespeare production. Continuing acquisitions of books and manuscripts have increased the size of the collection many times over and broadened the scope of the Library to include every phase of Tudor and Stuart civilization. At present the Library is second only to the British Museum in its holdings of books printed in England between 1475 and 1640. Its holdings in the period from 1640 to 1715 in materials relating to the Continental Renaissance, and in such specialized areas as Renaissance musicology and drama are also extensive.

Facilities include reading room, stacks, offices, and service areas for such activities as ordering, cataloging, binding, and photoduplication. In addition, the Library has a public exhibit hall and a theatre suggestive of the characteristics of an Elizabethan playhouse.

In his will, Mr. Folger spoke of an institution "for promoting and diffusing knowledge." The Library has sought continuously since its creation to enlarge its educational function. Its reading room is open to all qualified

scholars. Through its photoduplication department and its travelling exhibits it provides services for scholars and school groups outside of the Washington area. The Folger Fellowship program offers senior, short-term, and dissertation year fellowships to both foreign and American scholars. Folger seminars are offered annually in cooperation with the consortium universities of the Washington area and are also open to qualified Amherst students. A program of lectures, concerts, and cultural events is held at the Folger theatre and open to the general public without charge. A publication program further contributes to the Library's objective of "diffusing knowledge" of Shakespeare, of English culture, and of the Renaissance.

FOLGER LIBRARY OFFICERS

O. B. Hardison, Jr., PH.D., *Director*
Philip A. Knachel, M.S.L.S., PH.D., *Associate Director*
Richmond Crinkley, PH.D., *Director of Programs*
Dorothy E. Mason, B.A., M. A., *Reference Librarian*
Lilly C. Stone, B.A., *Chief Cataloguer*
Elaine Fowler, B.A., *Reading Room Supervisor*
Elizabeth Niemyer, B.A., M.A., *Acquisitions Librarian*

Doshisha University

DOSHISHA UNIVERSITY in Kyoto, Japan, was founded by Joseph Hardy Neesima, of the Class of 1870, the first Japanese to graduate from a Western institution of higher learning. Amherst has maintained a continuing and close relationship with Doshisha. More than twenty-five Amherst graduates have taught there, and, since 1922, Amherst has maintained a resident instructor at the Japanese university. Amherst House, a New England Georgian style residence, was built on the Doshisha campus in 1932 as a memorial to Neesima. It houses some twenty Doshisha students and serves as a center for cultural exchange between students and faculty from East and West.

Since World War II, Amherst has maintained a member of its own faculty for permanent service at Doshisha as a Professor in Residence and Director of Amherst House. Recently he has been aided by an Amherst-Doshisha Fellow on a yearly assignment. In 1962 the College, through the further generosity of friends and alumni, was enabled to build a new guest house of modern Japanese design which affords quarters for the director, well-appointed guest suites, and dining facilities to enhance the possibilities of

exchange across cultural barriers. As the importance of Eastern ideas and Asian cultures gains increasing recognition, Amherst House is able to provide unique facilities and a sympathetic environment for scholars visiting Kyoto—for a thousand years the capital of Japan and still the center of traditional Japanese culture.

Admission

ADMISSION to Amherst College is competitive. The College attempts to select those applicants who seem qualified to benefit from the educational opportunities offered. The Committee on Admission, in judging the qualifications of applicants, pays particular attention to (1) academic achievements; (2) results of the College Entrance Examination Board scholastic aptitude and achievement tests; (3) the recommendation of the college counselor; (4) evidence of curiosity, industry, and resolution; (5) the character, health, and extra-curricular interests and achievements of the applicant. All freshmen admitted are candidates for the Bachelor of Arts degree.

HOW AND WHEN TO APPLY FOR ADMISSION

Applications should be filed in senior year between September 1 and March 1. Under special circumstances later applications may be considered. Decisions of the Committee on Admission will be mailed to candidates about mid-April.

Students with exceptional ability and maturity who have outrun the educational opportunities of their communities may apply for admission after three years of secondary school.

Amherst has an Early Decision Program for students who have selected Amherst as the college of their choice. Details are available with the application form.

Beginning students may enter only in September.

Financial Aid applicants should refer to pages 47–49.

The formal application should be accompanied by a check or money order for $15.00 made payable to the *Trustees of Amherst College*. This application fee will not be refunded if the student withdraws his application or if his application is not acted upon favorably.

Correspondence regarding admission to the freshman class should be addressed to the Dean of Admission, Amherst College, Amherst, Massachusetts.

INTERVIEW HOURS

The Admission Office is open weekdays from 8:30 A.M. until 12:00 noon and 1:30 P.M. until 4:00 P.M. and on Saturdays from 8:30 A.M. until 12:00 noon, but through the summer months and until Labor Day, the Admission Office (and all administrative offices) will be closed on Saturdays. Where possible, applicants for admission are advised to visit the College and discuss their educational plans with an admission officer. Interviews are not

required, however. It is advisable to write for an appointment with an admission officer if you plan to visit the College.

RECOMMENDED PREPARATION

The following minimum program for studies is recommended for students planning to enter Amherst College:

English	4 years
Mathematics	3 years
Foreign Language	2 years (3 or 4 years of one preferred)
History	1 year
Laboratory Science	1 year

It should be noted that the College stresses sound preparation in certain subjects which are important implements for the many branches of college work. English, mathematics (intermediate mathematics, emphasizing basic algebraic, geometric, and trigonometric concepts and deductive reasoning), and foreign language (ancient or modern or both) are the subjects in which entering students should show proficiency.

For graduation Amherst College requires competence (oral and written) in a foreign language, ancient or modern. For definition of competence see page 52. The phrase "satisfactory score" means 600 in the College Entrance Examination Board achievement tests.

In selecting a class, some preference is given to candidates who present the following programs in foreign language in the following order:

First preference: four years of one language;
Second preference: three years of one language;
Third preference: two years each of two languages.

Candidates who apply from secondary schools which offer little or no language instruction will be judged by their other intellectual aptitudes and achievements and their readiness for the Amherst curriculum. Amherst College recommends, where possible, that a student continue to study the language he begins in secondary school through completion of the college requirement.

Students with particular interests may wish to modify the suggested program by taking more work in certain subjects and less in others. Such modification is wholly acceptable, provided there is evidence of adequate preparation in the basic fields of English, mathematics, and foreign language. Any deviation should be discussed in advance with the Dean of Admission.

ADVANCED PLACEMENT

In certain subjects, candidates who have completed advanced work in secondary schools may apply for advanced placement at Amherst. Each case

will be considered individually on its own merits. Candidates interested in Advanced Placement are urged to take the Advanced Placement Tests given by the College Entrance Examination Board. Questions about Advanced Placement should be directed to the *Dean of Admission*. For further information candidates should consult the Advanced Placement booklet in their secondary school guidance office.

COLLEGE BOARD TESTS

All applicants are required to take the Scholastic Aptitude tests and three Achievement tests, of which one shall be the English Achievement Test; these tests must be taken no later than the January series. Inasmuch as the registration deadline for the College Board tests is approximately one month prior to the test date, applicants should arrange to take these examinations as soon as possible with the Secretary of the College Entrance Examination Board, Box 592, Princeton, New Jersey 08540. Students living in Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming, Alaska, or Hawaii should register with the Secretary of the College Entrance Examination Board, Box 1025, Berkeley, California 94701.

Amherst requires competency in a foreign language (ancient or modern) for graduation from college. The requirement may be met by entering students who have made a score of 600 on a Language Achievement Test plus, in modern languages, a similar score on the Listening Comprehension Test. This test is given only once a year in February, and your counselor must make special arrangements for it with the Educational Testing Service.

Applicants who are studying a foreign language in senior year and who have not achieved a 600 in the CEEB Achievement test should retake the test in January, March, or May, and the February Listening Comprehension Test in modern languages.

Applicants in military service whose location makes examinations impossible are exempt from CEEB tests.

Regents Examinations. Applicants from the New York State public schools are expected to submit scores made on the Regents Examination in addition to the scholastic aptitude and achievement tests given by the College Entrance Examination Board.

ADMISSION AS A TRANSFER

To be eligible for consideration as a transfer a candidate must meet the following requirements:

1. His credits must satisfy the full entrance requirements of Amherst College.
2. He must have completed creditably the work of at least one year in an

institution of collegiate rank or two years in a junior or community college.

3. He must present a statement of honorable dismissal.
4. He must file a formal application for admission by transfer.

Candidates for admission by transfer are usually admitted in September.

Candidates should note that, in general, only students with a B average or better will be considered for admission as transfers.

Special consideration is given applicants from junior or community colleges who have made distinguished academic records.

Some financial aid is available for transfer students.

Correspondence concerning admission of transfers should be addressed to the Dean of Admission.

COOPERATIVE ENGINEERING-SCIENCE PROGRAM

In order to facilitate the combination of a liberal arts course with education in science and engineering, Amherst College will permit a student of high standing to pursue a five-year program in which the first three years will be spent at Amherst College and the last two years at the Massachusetts Institute of Technology, or any other engineering school approved by the Dean of the College, with the understanding that if the five-year program is satisfactorily completed the student will receive the degree of Bachelor of Arts from Amherst College and the degree of Bachelor of Science from the engineering school.

Regulations

TERMS AND VACATIONS

The college year 1969–70 includes two regular semesters with fourteen weeks of classes each semester. In the fall semster there are a Thanksgiving recess of approximately five days and a Christmas vacation of two weeks; in the spring semester there is a vacation of two weeks.

All official college vacations and holidays are announced on the College Calendar appearing on page v. of this catalog.

ATTENDANCE AT COLLEGE EXERCISES

It is assumed that students will make the most of the educational opportunities available by regularly attending classes and laboratory periods. At the beginning of the semester, each instructor is free to state his policy with regard to absences in his course. Thereafter, he may take such action as he deems appropriate, or report to the Dean of Students the name of any student who disregards the regulations announced.

The Registrar will send to faculty members a list of students who have been absent for athletic trips or other extra-curricular activities, and a list of students who have been in the Infirmary. Students are asked to notify the Office of the Dean of Students if they have been delayed at home by illness or family emergencies. They are also requested to report any unusual or unexplained absence from the College on the part of any fellow student.

If a student has been attended at home by a physician other than one of the Student Health Office staff, he should, on the day of his return, report the absence to the Office of the Dean of Students and submit a statement concerning his illness and any recommended treatment to the Student Health Office. Students who are ill at College will normally be attended at the Infirmary or the Student Health Office. It is assumed that all students not admitted to the Infirmary or excused by the attending physician are well enough to attend their regular classes.

The responsibility for any work missed due to an illness or other absence rests entirely upon the student.

A minimum of three hours a week of physical exercise is required of all freshmen and sophomores throughout the college year. More than six absences during a given semester will lead to a deficiency in meeting the requirement for that semester. Such a deficiency must be made up at the earliest possible time and no later than the end of the first semester of the junior year. A fee of $30.00 is charged for an extra semester.

STUDENT CONDUCT

It is the belief of Amherst College that its students want to take responsibility for setting, maintaining, and supporting moral and intellectual standards. With this in mind, the College has adopted an honor code. In a social and moral sense this honor code means the support of those standards which befit the conduct of a gentleman and which will reflect credit on the College, its students, and its guests.

The College reserves the right to exclude at any time students whose conduct or academic standing it regards as unsatisfactory; in such cases fees will not be refunded or remitted, in whole or in part, and neither the College nor any of its officers shall be under any liability whatsoever for such exclusion.

RECORDS AND REPORTS

Grades in courses are reported in three categories:

Honor Grades = A+, A, A−, B+, B, B−

Passing Grades = C, D.

Failing Grade = F.

Term averages and cumulative averages are reported on a 14-point scale rounded to the nearer whole number. The conversion equivalents are: A+ = 14, A = 13, A− = 12; B+ = 11, B = 10, B− = 9; C = 7, D = 4; F = 1.

Grade reports for D and F grades only will be sent to students after the end of the seventh week of classes each semester. Parents of freshmen will also receive grade reports for D and F grades after the first seven weeks of each semester. Reports for all grades and averages will be sent at the end of each semester.

"Rank in class" will not be used, but transcripts and grade reports will be accompanied by a profile showing the distribution of cumulative averages for students of the same class level in the current and in the previous two years.

Student academic records are maintained by the Registrar's Office and are confidential; information is released only at the request of the student or of appropriate institutions. Students are advised that their records are made available to their secondary schools and to certain legitimate research agencies such as the National Registration Office. Partial transcripts are not issued; each transcript must include the student's complete record at Amherst College to date. An official transcript carries an authorized signature as well as the embossed seal of Amherst College.

Transcripts of credit earned at other institutions, which have been presented to Amherst College for admission or transfer of credit, become a part of the student's permanent record and are not issued, reissued or copied for distribution. Grades for courses that were transferred from other institu-

tions are not recorded; credit only is listed on the Amherst transcript. Transcripts for all academic work at other institutions of higher education should be requested directly from those institutions, including summer schools.

EXAMINATIONS

Examinations are held at the end of each semester and at intervals in the year in all courses. At the end of each semester, final grades are reported and the record for the semester is closed. No extension of time is allowed for intra-term examinations and incomplete laboratory work beyond the date of the last scheduled class period of the semester, unless exception is granted by the Dean of Students. No extension for essays, themes, theses, and reports will be given beyond the last day of classes of the semester.

A student who is prevented by illness from attending a semester examination may be granted the privilege of a special examination by the Dean of Students, who will arrange the date of the examination with the instructor. There are no second or make-up semester examinations, unless a student is prevented by illness from taking such an examination at the scheduled time.

No semester examination may be taken before the scheduled time. A semester examination may be postponed only by approval of the Dean of Students.

DELINQUENCIES

At the midpoint and end of each semester, the cases of all students whose work is unsatisfactory are brought before the Deans for consideration. Those who have clearly shown their unfitness for college work are dismissed from the College. Others whose records are unsatisfactory are placed on scholastic probation.

Students belonging to one or more of the following groups may not expect to continue at Amherst College:

a. Those who in any semester are failing in two or more courses. Withdrawal from a course while failing it shall count as a failure.
b. Those who in any semester fail a course and receive an average of less than 7 in courses passed.
c. Those who in any semester pass all courses but receive an average of less than 6.
d. Those who have been in Amherst three or more semesters and have an average of less than 6 in all courses taken at the College.
e. Those who have accumulated delinquencies in three or more courses during their college careers.
f. Those who have been on probation and have failed to meet the conditions of their probation.

A student will be classified no higher than a sophomore until he has fulfilled the foreign language requirement.

make up this delinquency at the earliest possible opportunity. No student

A student who has failed a semester course in Physical Education must will be permitted to take two courses in Physical Education in a single semester.

The College requires that each student be able to swim one hundred yards before graduation. Students who have not satisfied this requirement by the end of the second semester of the sophomore year will be reported as deficient in the second semester course in Physical Education until this test is passed.

No student may take courses in a summer school to make up a delinquency incurred at Amherst College unless his summer school courses are approved in advance by the Dean of Students. Similarly, Amherst College credit will not be given for courses taken in summer school unless approval is secured in advance from the Dean of Students.

The College does not grant credit for summer school courses completed with a grade below C.

ROOMS AND BOARD

All students, unless specifically excused by the Dean, are required to live either in the dormitories of the College or in fraternity houses. Dormitory rooms are equipped with bed, mattress, pillow, chiffonier, desk, chairs, and bookcase or shelves. Occupants furnish their own blankets, linen, and towels, and may provide extra furnishings if they wish, such as rugs, curtains, lamps, etc.; they may not add beds, sofas, lounges, or other furniture of such nature except under certain circumstances. More complete regulations for dormitory occupancy are contained in the Student Handbook. Room assignments are noted on the invoice from the Comptroller's Office.

All students are required to eat in Valentine Hall unless excused by the Dean. There are no rebates for absence from meals.

A complete description of the regulations of Amherst College on such matters as Dormitories, Motor Vehicles, Student Health, Eligibility Requirements, and other areas of student life are contained in the Student Handbook.

Tuition and Fees

A CANDIDATE'S formal application for admission should be accompanied by a $15 application fee in check or money order payable to Amherst College. Upon notification of his admission to the College a candidate is required to return with his acceptance a non-refundable advance payment of $100 which will be credited in full on his first term bill.

Comprehensive Fee (Tuition, Room, Board)	$3,400
Student Activities Fee	60
Blue Cross-Blue Shield Student Health Plan	40
	$3,500

The first semester bill in the amount of $1800 is mailed to all students in August before college opens. The College bill is due and payable on or before September 16, 1969. All college scholarships, Insured Tuition Plan payments and any other cash payments received prior to August 1st will appear as credits on this bill. The second semester bill totaling $1700 is mailed approximately January 1, 1970 and is due and payable on or before January 16, 1970.

Student identification cards will be issued by the Comptroller's Office upon payment of the College bill. These cards must be obtained before course cards may be picked up.

The fee for the support of various activities of the student body is determined by the Student Council. This fee is collected by the College and turned over to the Director of Student Activities for expenditure under his supervision. For the year 1969–70, the fee has been set at $57.00. For this fee each student receives a copy of the yearbook, *The Olio;* a one-year subscription to the student newspaper and magazine, *The Amherst Student* and *The Amherst Literary Magazine;* and contributes to the support of the Amherst Glee Club, the band, the Prom, the radio station, etc.; the fee also includes class dues for each class, and the support of other activities of the student body which fall under the jurisdiction of the Student Council. To this fee is added $3.00 covering admission to Masquers performances at Kirby Theater which are under College rather than Council jurisdiction, making a total of $60.00.

The charge of $40.00 appears on the comprehensive bill for twelve months Accident and Sickness Insurance for the period September 1, 1969 through August 31, 1970. Details concerning the Student Health Office, the College Infirmary and the Blue Cross-Blue Shield Student Health Plan appear in the Amherst College Student Handbook.

Additional Fees

Each senior or candidate for an M.A. degree is charged a degree fee of

$15 in his final semester.

Miscellaneous charges such as fees for late registration, change of courses, extra courses, library fines, lost or damaged property, etc., are payable currently when incurred.

For delinquencies in Physical Education, a charge of $30 will be levied for each semester following sophomore year until the delinquency is removed.

Payment Plans

For those who wish the convenience of monthly payments, arrangements have been made for a pre-payment plan, including insurance for continued payment in case of death or disability of the parent. For further details write to: The Insured Tuition Payment Plan, 38 Newbury Street, Boston, Massachusetts 02116.

The officer having general supervision of the collection of tuition and fees is the Comptroller.

Financial Aid

IN a sense, every student at Amherst College is on scholarship. Beginning in September, 1969, the comprehensive charge for tuition, room, board, and fees will be $3,400, yet the education of each student costs the College more than $7,400 per year. General endowment income, gifts, and grants to the College supply the difference.

For those students who cannot afford the regular charge, financial aid is available from a variety of sources. Through the years alumni and friends of the College have contributed or bequeathed capital funds whose income is to be used for scholarship aid to worthy students. These funds now amount to more than $4,500,000. Some, such as those designated for candidates for the ministry or those for students from certain geographical areas, are restricted in use. For the most part, however, the income from these funds may be used at the discretion of the College.

Each year the alumni of the College through the Alumni Fund contribute a substantial sum for scholarship and financial aid purposes. Several Amherst Alumni Associations also provide special regional scholarships to students from their areas; such awards are currently sponsored by the Connecticut, Michigan, New York City, Northern Ohio, St. Louis and Wisconsin Associations. Without these alumni contributions, the College could not maintain its present financial aid program.

Additional financial aid is available to Amherst students from sources outside the College. A number of foundations and corporations grant funds which the College distributes on the basis of high merit and financial need. Notable special scholarships are granted by the General Motors Corporation, the Edwin Gould Foundation for Children, the Gilbert H. Grosvenor Memorial Fund, the Agnes M. Lindsay Trust, the Mayne Educational Fund, the Charles C. Patrick Memorial Fund, the Procter and Gamble Corporation and the Alfred P. Sloan Foundation. The College also participates in the College Work-Study, the Educational Opportunity and the National Defense Student Loan programs of the federal government.

Amherst College has a broad financial aid program in which scholarship grants, loans and student employment all play an important part. About one third of the students receive financial aid. Awards range from $100 to $3,500.

The officer directly in charge of the administration of financial aid is Dean Routh.

FINANCIAL AID POLICY AND PROCEDURE

The College grants financial aid only in cases of demonstrated financial need, but a student's character and academic performance and promise are

important factors. A student's financial need is calculated by subtracting from his probable college year expenses the amount which he and his family may reasonably be expected to supply. His college year expenses include tuition, room, board, fees, transportation, a sum of $500 for books and personal expenses, and fraternity fees for upperclassmen. The family contribution is computed in accordance with the standard procedures of the College Scholarship Service. The college assumes further that each student will assist in financing his education through summer employment and part-time jobs during the college year. Students who receive financial aid may not maintain personal motor vehicles in the Amherst and Hadley area without express permission from Dean Routh.

Financial aid awards are generally a combination of scholarship grant and self-help opportunities. Under normal circumstances, after allowance has been made for the family contribution and the student contribution from savings and summer employment, the initial $700 of the applicant's demonstrated need will be met with a combination of college-year employment and long-term, low-interest loan and he may expect to receive gift aid to cover the balance of his need. These loans require no payment of interest or principal before graduation from Amherst or graduate school, or until completion of military, Peace Corps or VISTA service, whichever is latest. Thereafter, the loans are repayable on a monthly or quarterly basis within a ten-year period at a moderate rate of simple interest. Part of a student's loan may be forgiven if he enters certain low-paying professions of service.

Renewal of scholarship grants is not contingent upon acceptance of the loan portion; many students prefer to earn more money during the summer or at college so that no loan is needed. Students who are unable to meet the summer-earning expectation by reason of unusual or educational summer-time opportunities or who find it difficult to undertake campus employment may petition for an increase in loan to cover the difference. The size of the loan portion is also influenced by the overall performance of the student. Recipients of national scholarships and outside foundation awards are often not subject to these loans provisions.

APPLYING FOR FINANCIAL AID

Financial aid candidates should file applications for financial aid at the same time they file their applications for admission. Applications must be received by the Admission Office before February 15 to be considered. An application for financial aid requires the submissionn of two forms: a Parents' Confidential Statement filled out by the parents, and an Amherst College Financial Aid Application filled out by the candidate for admission. Candidates may obtain copies of the Parents' Confidential Statement from their secondary school guidance counselors or from the College Scholarship Service, Box 176, Princeton, New Jersey 08540, Box 881, Evanston, Illinois

60204, or Box 1025, Berkeley, California 94701. Parents should send the completed form to the College Scholarship Service which will process it and forward the results to Amherst College for evaluation and final decision. Freshmen Financial Aid Applications may be obtained from the Office of the Dean of Admission by filling in the Preliminary Financial Aid Application Card which accompanies every application for admission. Applicants for financial aid need not take any special examinations other than those required for admission.

Undergraduates who desire renewal of their financial aid awards or who wish to apply for financial aid for the first time must file applications by April 20. Renewal forms may be obtained in Dean Routh's Office and should be returned directly there. Upperclassmen will receive notification of their financial aid awards in July.

STUDENT LOAN FUND

Through the generosity of friends of the College, the Student Loan Fund has been established from which small short-term loans may be made to a few students who require funds to meet personal emergencies or other needs for which financial aid funds may not be obtained. In accordance with the conditions set by the donors, use of the Student Loan Fund is limited to students in good scholastic standing whose habits of expenditure are economical. The rate of interest is slightly higher and the repayment period shorter than for scholarship loans, but complete scholarship application procedure is not required. Further information about the Student Loan Fund may be obtained from Dean Routh.

ADDITIONAL FINANCIAL AID INFORMATION

A more detailed description of the financial aid program, *Costs and Financial Aid at Amherst College,* is available upon request from the Admission Office. Questions about the financial aid policy of Amherst College should be directed to Dean Routh.

Degree Requirements

BACHELOR OF ARTS

THE degree, Bachelor of Arts, is conferred upon students who have satisfactorily met the requirements described below. The plan of studies leading to this degree is arranged on the basis of the equivalent of an eight-semester course to be pursued by students in residence at Amherst College.

The degree, Bachelor of Arts, *cum laude, magna cum laude,* or *summa cum laude* (Degree with Honors) is awarded to students who have successfully completed an approved program of honors work with a department or group.

Other students who satisfactorily meet the requirements as indicated below receive the degree, Bachelor of Arts, *rite.*

REQUIREMENTS

The Bachelor of Arts degree is awarded to students who:

1. Complete thirty-two full semester courses and four years of residence,* except that a student who has dropped a course without penalty during his first year, or who has failed a course during his Freshman or Sophomore year, shall be allowed to graduate, provided he has been four years in residence at the College and has satisfactorily completed thirty-one full courses.

2. In freshman and sophomore years complete the three Problems of Inquiry courses;

3. Satisfy the distribution requirement (seven courses outside the major department) as specified below;

4. Satisfy the foreign language requirement in French, German, Greek, Italian, Latin, Russian or Spanish as specified below;

5. Complete the requirements for a major in a department or a group of departments including the passing of a comprehensive examination as specified below;

*A faculty vote specifies that a student with twenty-four courses and three years of residence may apply for graduation if all other requirements have been met. A student seeking to graduate in three years must apply to the Secretary of the Committee of Six. The Faculty has voted: "When a student's application for a three-year degree receives a favorable endorsement by the Committee of Six, this committee should recommend to the Faculty that the student be granted the status of a candidate for the degree at the end of his third year. It should be understood that the final decision by the Faculty concerning the awarding of a three-year degree will not be rendered until degree cases are considered at the end of the academic year." (12-3-68)

6. Complete certain prescribed work in physical education;

7. Attain a general average of 6 in the courses completed at Amherst and a grade of at least 70 or C in every course completed at another institution for transfer credit to Amherst.

COURSE REQUIREMENTS

All students except Independent Scholars are required to elect four full courses each semester and may elect an additional half course. The election of a half course in addition to the normal program is at the discretion of the student and without special permission. No student may elect more than one half course in any semester except by consent of the Dean of the Faculty and the Departments concerned. In such cases the student's program will be three full courses and two half courses. Under no circumstances except those specifically defined under the present rules will half courses be counted in fulfillment of the 32 course equivalence.

No student may elect five full courses, but with the consent of the instructor may audit a fifth course.

In exceptional cases a student may, with the permission of both his academic advisor and the Dean of Students, take five full courses for credit during a given semester. Such permission is normally granted only to students of demonstrated superior academic ability, responsibility and will.

No student may add a course to his program after the fourteenth calendar day of the semester.

A student who drops a course from his program after the fourteenth calendar day of the semester shall incur a failure in that course; except that, with the approval of the Dean of Students, a student during his first year may drop one course at any time during the first eight weeks of either semester without receiving a failing grade. Other exceptions to this rule shall be made only for medical reasons, or reasons of grave personal emergency, and shall be made only by the Dean of Students.

A student who has not passed four full courses in any given semester must clarify his standing with the Dean of Students within seven days of his being notified of his deficiency. A student whose deficiency is attributable to a medical or other grave personal emergency may appeal to the Committee of Six, by application to its Secretary, for an abatement of the required number of thirty-two full courses for graduation.

DISTRIBUTION REQUIREMENT

In order to provide students with a breadth of experience outside of their fields of major interest, each department has prepared one or more two-course sequences and one or more three-course sequences designed to give an introduction to its concepts, methods and achievements. Students are required to take one two-course sequence in a field outside the major but within the same division as the major, one two-course sequence in one of

the divisions outside that of the major and one three-course sequence in the other division outside that of the major. Both two-course sequences and at least two courses of the three-course sequence must be completed by the end of the sophomore year.

In foreign languages, only courses at the literary level may be used to satisfy the distribution requirement in the humanities division. Problems of Inquiry do not satisfy any distribution requirement. Advanced placement in a course of study does not satisfy any part of the distribution requirement in that division.

Divisions are defined as follows:

Division I, Humanities, includes Dramatic Arts, English, all foreign languages including Classics, Fine Arts, Music, Philosophy and Religion.

Division II, Social Sciences, includes American Studies, Anthropology, Black Studies, Economics, History, Legal Studies, Political Science, Psychology and Sociology.

Division III, Mathematics and Natural Sciences, includes Astronomy, Biology, Biophysics, Chemistry, Geology, Mathematics, Natural Science and Physics.

LANGUAGE REQUIREMENT

In modern languages the requirement may be met either:

1. At entrance by a satisfactory score in the College Entrance Examination Board achievement test in the language, plus a demonstration of ability to comprehend the spoken language as shown either by a satisfactory score in the listening comprehension test administered by the College Entrance Examination Board, or in an aural examination to be given to freshmen at the beginning of the college year; or

2. After entrance by passing course 5 in French, German or Spanish; or by passing course 12 in Italian or course 4 in Russian; or by passing reading and aural comprehension examinations to be given at the end of course 3 in French, German or Spanish.

In ancient languages the requirement may be met either:

1. At entrance by a satisfactory score in the College Entrance Examination Board achievement test in Greek or Latin, or

2. After entrance by passing Latin 3 with a grade of C, by passing any higher numbered full course in Latin, or by passing Greek 11.

THE MAJOR REQUIREMENT

A major normally consists of eight courses pursued under the direction of a department or special group. A major may begin in either the freshman or sophomore year and is normally declared by the beginning of the junior year. Students may change their major at any time provided that they will be able to complete the new program before graduation.

The major program can be devised in accordance with either of two plans:

DEPARTMENTAL MAJORS

A student may complete the eight-course requirement within one department. He must complete at least six courses within one department, however, in which case he may take the remaining two courses in related fields approved by the department.

INTERDEPARTMENTAL MAJORS

Students with special needs who desire to construct an interdepartmental major will submit a proposed program, preferably with the endorsement of one or more professors from each of the departments concerned, to the Committee on Interdisciplinary and Special Study. Such a program is normally composed of courses available in the existing departments and is not to be confused with the Independent Study program. If the CISS approves the proposal, it will appoint an ad hoc committee which will have all further responsibility for approving modifications in this program, selecting an advisor, administering an appropriate comprehensive examination, and making recommendations for graduation with honors.

Comprehensive examinations are part of the major requirement in every department. Students will take their Comprehensive Examinations not later than the seventh week of the second semester of the senior year. A make-up for those failing the examination will be given not later than the last day of classes of the second semester of the senior year. A student who fails the first make-up will be given one further opportunity to retake his Comprehensive Examination during the next College year.

No student may be exempted from any part of the examination required of other departmental majors; a department may, however, provide different examinations for honors and *rite* candidates.

DEGREE WITH HONORS

The degree Bachelor of Arts with honors is awarded at graduation to students whose academic records give evidence of particular merit. It may be awarded *cum laude*, *magna cum laude*, or *summa cum laude*, according to the level of achievement of the candidates. All degrees with honors are noted on the diploma and the commencement program, and are announced in the annual catalog.

The award of honors is made by the Faculty of the College. In making such awards the Faculty will take into account the following factors: (1) Candidates must have a minimum college average of 9 to be eligible to be considered for the degree *cum laude*, of 11 for the degree *magna cum laude*, and of 12 for the degree *summa cum laude*. (2) Candidates must receive the

recommendations for the degree *cum laude, magna cum laude,* or *summa cum laude* from the department in which they have done their major work. Each department will define the conditions upon which it will be its practice to make recommendations to the Faculty. (3) In the case of the award of *magna cum laude* and *summa cum laude* the Dean of the Faculty and the Committee of Six will review the entire record of candidates and will transmit to the Faculty their recommendations. Only students of marked distinction in both general work and in the field of honor studies will be recommended for the *summa cum laude* degree.

In exceptional cases, upon recommendation of the department in which the candidate has done his major work, the Committee of Six may recommend to the Faculty that a student be awarded a degree of honors for which he does not have the required average.

The minimum average required for a student to be accepted by a department as a candidate for honors is determined by the department concerned.

Students in the Independent Study Program may become candidates for the degree with honors. Recommendations for such students will be made by the student's tutor together with those members of his committee who have joined in assigning him his comprehensive grade in the program.

INDEPENDENT STUDY

A limited number of students who elect to do so may participate in an independent study program, usually in the junior or senior years. Participants are chosen by a faculty committee of four members, including the Dean of the Faculty, after nomination for the program by a member of the Faculty. Independent Scholars are free to plan a personal program of study under the direction of a tutor, chosen by the student with the advice and consent of the selection committee. The tutor provides the guidance and counsel necessary to help the student attain the educational objectives he has set for himself. The tutor and one or more other members of the Faculty familiar with the student's work will ultimately assign a comprehensive grade and provide a detailed, written evaluation of the student's performance which will become part of his formal record at Amherst College. Grades in such regular courses as the student may elect will be taken into account in assigning the comprehensive grade, and the student is eligible for a degree with honors, as well as all other awards and distinctions.

FIELD STUDY

Beginning with the academic year 1969–1970, the faculty has instituted a program of field study under which a student may pursue a course of study away from Amherst for either one or two semesters. A student is admitted to the program by the faculty Committee on Field Study upon approval of his written proposal on the nature of the endeavors he plans to undertake, and is assigned a Field Study Advisor chosen from the faculty.

Upon being admitted to Field Study, a student becomes a candidate for the degree of Bachelor of Arts with Field Study, which is normally attained in four and one half or five years. During his first semester in residence at Amherst after his period of Field Study, a student must take a Special Topics course, normally with his Field Study Advisor, in which he draws on both his experience of Field Study and further investigation relating to it. A student may also pursue a related Special Topics course in the semester before he enters his program of Field Study.

A student pursuing a two-semester plan of Field Study will be allowed to continue after the first semester only upon providing evidence to the faculty Committee on Field Study that he is satisfactorily carrying out his program. No student shall begin his study in the field later than the first semester of his senior year.

A student pursuing Field Study shall maintain himself financially in the field, and during the period shall pay a Field Study fee to the College in lieu of tuition.

The transcript of a student who has undertaken Field Study shall include a short description and appraisal by his Field Advisor of the student's project and of the related Special Topics course.

ADVANCED PLACEMENT & EARLY GRADUATION

Many academic departments grant advanced placement to properly qualified students by allowing them to enroll in a course beyond the elementary offering. (This does not constitute satisfaction of the distribution requirement in that division.) While the College does not confer advanced *standing* on entrance, an undergraduate with three years of residence and 24 courses, and who has completed all other requirements, may apply for graduation. (See footnote, page 50.)

FIVE-COLLEGE COURSES

Amherst, Hampshire, Mount Holyoke and Smith Colleges and the University of Massachusetts have for some time combined their academic activities in selected areas for the purpose of extending and enriching their collective educational resources. Certain specialized courses not ordinarily available at the undergraduate level are operated jointly and open to all. In addition, a student in good standing at any of the four institutions may take a course, without cost to the student, at any of the other three if the course is not available to him on his own campus and he has the necessary qualifications. The course must have a bearing on the educational plan arranged by the student and his adviser. Approvals of the student's adviser and the Academic Dean of the College (Provost at the University) at the home institution are required. Permission of the instructor is required for students from

other campuses if permission is required for students of the institution at which the course is offered.

Students should apply for interchange courses at least six weeks prior to the beginning of the semester since they may find some courses already filled after that time. Free bus transportation among the four institutions is available for interchange students.

Students interested in such courses will find current catalogs of the other institutions at the Loan Desk of the Library and at the Registrar's Office. Application blanks may be obtained from the Registrar's Office.

MASTER OF ARTS

The degree of Master of Arts is conferred upon students who have received the Bachelor of Arts degree either from Amherst College or from another college which has similar requirements for the Bachelor of Arts degree, and who have met the requirements described below. Application forms and a detailed explanation of the requirements may be obtained from the Dean of the Faculty.

REQUIREMENTS

To become a candidate for the Master of Arts degree, students are expected to have had at least a B average or its equivalent in their undergraduate work. They should secure approval of proposed courses of study from the Dean, the department concerned, and the Committee of Six, not later than the June preceding the opening of the college year in which they plan to begin work for this degree.

Candidates are required to complete at least eight semester courses of advanced character, or the equivalent, under the direction of the department concerned, to secure grades of at least B in every course, to spend a minimum of two semesters in residence at Amherst College, to prepare a satisfactory thesis, and to pass oral and written comprehensive examinations.

COOPERATIVE DOCTOR OF PHILOSOPHY

A cooperative Doctor of Philosophy program has been established by Amherst, Mount Holyoke, and Smith Colleges and the University of Massachusetts. The degree is awarded by the University of Massachusetts but some and perhaps much—and in a few exceptional cases even all—of the work leading to the degree might be done in one or more of the other institutions.

When a student has been awarded a degree under this program, the fact that it is a cooperative doctoral degree involving Amherst, Mount Holyoke, and Smith Colleges and the University of Massachusetts will be indicated on the diploma, the permanent record, and all transcripts, as well as on the commencement program.

The requirements for the degree are identical to those for the Ph.D. degree at the University of Massachusetts except for the statement relating to "residence." For the cooperative Ph.D. degree "residence" is defined as the institution where the dissertation is being done.

Students interested in this program should write to the Dean of the Graduate School at the University of Massachusetts. However, students who wish to work under the direction of a member of the Amherst Faculty must have their proposal approved by the Dean of the Faculty of Amherst College and by the Amherst Faculty Committee of Six.

Faculty Statement on Intellectual Responsibility

IN order to cooperate with the Student Council in its efforts to maintain an honor system at Amherst College, the Faculty has voted the following statements and articles:

A Statement of Intellectual Responsibility
Among Students at Amherst College:

The following Articles are an institutional expression of the basic fact that every man's education is the product of his own intellectual efforts. Amherst cannot educate a man who will not educate himself. Amherst sees no value in making its facilities available to a man who avoids the responsibility and opportunity for his own education. Every man who enrolls and remains at Amherst, therefore, understands that to submit work which is not his own violates the purpose of the College and of his presence there. No intellectual community can maintain its integrity or be faithful to its members if violations of its central purpose are for any reason tolerated.

This principle of intellectual responsibility applies to all work done by students.

ARTICLE I

This statement will be perpetuated in the Amherst College Bulletin, Student Handbook, and other publications deemed appropriate. The following affir-

mation will be printed on the course enrollment cards for every course; it must be signed before enrollment can be considered:

> "I have read, understand, and accept the Statement of Intellectual Responsibility Among Students at Amherst College, and agree with this principle as it relates to this course.
>
> .....(signed)"

ARTICLE II

Section 1. Examinations will not be proctored; orderly and honorable conduct of examinations will be the individual and collective responsibility of the students concerned, in accordance with the Statement above.

Section 2. The instructor may be present at examinations at appropriate times to answer any questions that arise.

ARTICLE III

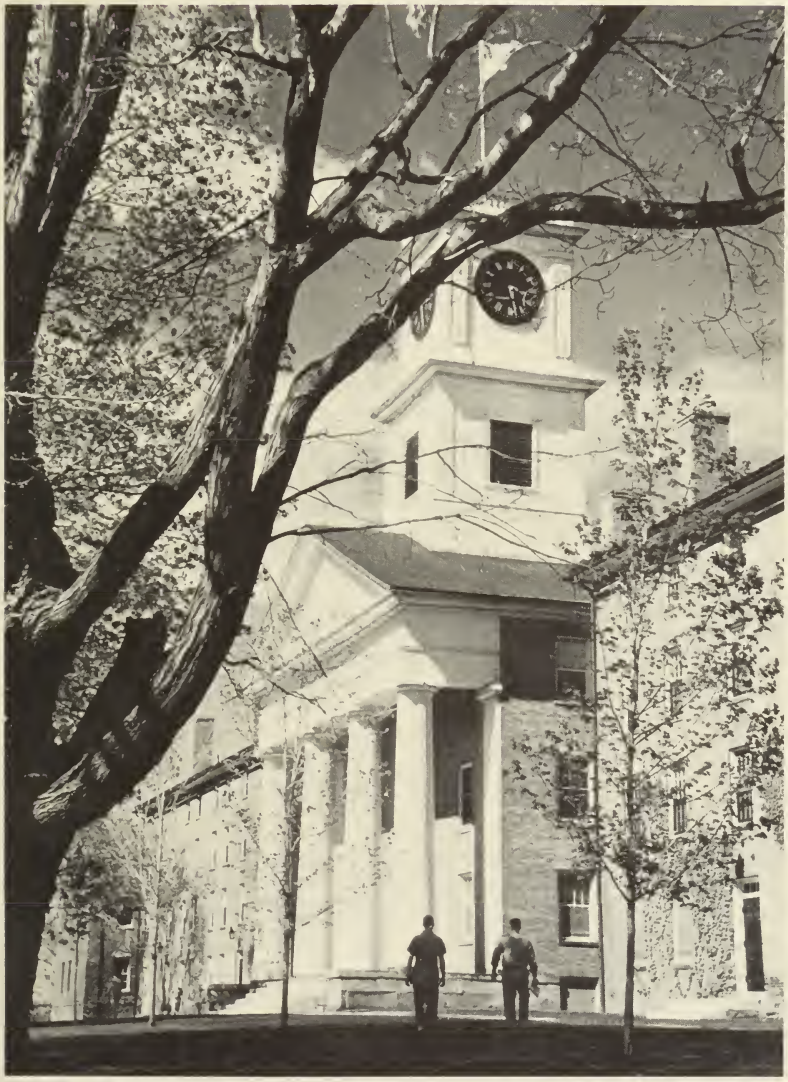
In instances of purported or ascertained violation of the Statement of Intellectual Responsibility, the Student Council will, after proper scrutiny and deliberation, recommend the course of action to be followed, the recommendation being subject to the approval of the College Council and of the President of the College.

ARTICLE IV

The Student Council shall make provision for explaining the Statement of Intellectual Responsibility to incoming freshmen and to new members of the Faculty, and for publicizing and interpreting the Statement to the student body during the year. The Student Council will consider any problems of maintaining intellectual responsibility which are brought before them by the students. They will make any recommendations which they deem advisable for action by the Faculty and Administration. At some time each year the Council shall also be responsible for a serious review of the effectiveness of these procedures in promoting the central purpose of the College.

III

COURSES OF INSTRUCTION



Johnson Chapel

Courses of Instruction

COURSES are open to all undergraduates, subject only to the restrictions specified in the individual descriptions. Courses listed as elective for a particular class may be elected by members of that class and higher classes. In general all courses numbered 1 to 9 are introductory language courses. Introductory courses in other areas are numbered 11 to 20, senior honors courses, usually open only to candidates for the degree with honors, are numbered 77 and 78, and special topics courses are numbered 97 and 98. All courses, unless otherwise marked, are full courses. The course numbers of double courses and half courses are preceded by D or H. All odd-numbered courses are offered in the first semester, unless followed by the designation s, and all even-numbered courses are offered in the second semester unless followed by the designation f.

SPECIAL TOPICS COURSES

Departments may offer a semester or a year course known as Special Topics in which a student or a group of students study or read widely in a field of special interest. It is understood that this course will not duplicate any other course regularly offered in the curriculum and that the student will work in this course as independently as the director thinks possible.

Before the time of registration the student should consult the teacher in whose field of competence his subject comes and who will direct his work; they will decide the title to be reported, the nature of the examination or term paper, and will discuss the preparation of a bibliography and a plan of coherent study. All students must obtain final approval of the Department before registration. Two Special Topics courses may not be taken concurrently.

PROBLEMS OF INQUIRY

Each of the three Problems of Inquiry courses is a one-semester interdisciplinary introduction to the outlook and methods of one of the major divisions of the liberal arts program. Students must normally elect these three courses within their first four semesters and no more than one of these courses may be elected in a single semester. Students shall be required to take all three Problems of Inquiry courses. Exemption from an Inquiry course may be made only by the Chairman of the course, in consultation with his

staff. A student exempted from one version of an Inquiry course will not be required to take a later version of the course with different expectations for exemption.

1. Humanities. A number of works in the humanities will be considered with an eye toward distinguishing and comparing the kinds of discourse stimulated by each. Materials will be selected mainly, though not exclusively, from literature, music, fine arts, and imaginative works of discursive prose.

Three meetings a week, usually in sections. Elective for Freshmen and Sophomores. First semester. Professors A. Barnes, Batchelder, Bierman, Cannon (Chairman), May, A. Ryerson, Townsend and White.

1s. Humanities. Same description as Problems of Inquiry 1.

Three meetings a week, usually in sections. Elective for Freshmen and Sophomores. Second semester. Professors A. Barnes, Cameron, Cannon (Chairman), Cohen, Kennick, Kent, Pemberton, Ryerson, Sofield and Zemelman.

2f. The Social Sciences. An examination of the ways in which the various social sciences seek to understand social phenomena. The subject for 1969–70 will be poverty. The course will be concerned with the techniques and explanatory models employed by the social science disciplines in the study of poverty. The class will meet as a whole for lectures and in sections for seminar discussions.

Elective for Freshmen and Sophomores. First semester. Professors Beals (Chairman), Birney, Czap, Kateb, Lees, Mead, R. Moore, B. Morgan, Pitkin, Schloming, Taubman and Von Der Lippe.

2. The Social Sciences. Same description as Problems of Inquiry 2f.

Elective for Freshmen and Sophomores. Second semester. Professors Beals (Chairman), Collery, Czap, Kohler, Olver and Schneider.

3. The Natural Sciences. An examination of essential aspects of scientific methodology and philosophy. The impact of science upon man's world view and an evaluation of the role of the layman in a society that is increasingly science-oriented. Active student participation is encouraged as much as possible in developing these ideas by frequent use of small seminar discussions.

In 1969–70, illustrations of these concepts will be drawn from several scientific disciplines: the Copernican Revolution, the Theory of the Gene, the Origin of Life. Three hours of lectures and discussions and one two-hour laboratory per week.

This course should not be elected by students intending to major in the Sciences (exclusive of Mathematics) or students who are planning Pre-Medical programs.

Elective for Freshmen and Sophomores. First semester. Professors Duffy, Ellis, Fink, Hexter (Chairman), Kropf, Offenhartz and Robinson.

3s. The Natural Sciences. Same description as Problems of Inquiry 3.

This course should not be elected by students intending to major in the Sciences (exclusive of Mathematics) or students who are planning Pre-Medical programs.

Elective for Freshmen and Sophomores. Second semester. Professors Cogan, Dempesy, Fink, Hexter (Chairman), Kropf, Watson and President Plimpton.

AMERICAN STUDIES

Professors Greene†, Hawkins*, Marx*, B. Morgan, Rozwenc (Chairman), Ward, Warne* and Ziegler; Associate Professors Guttmann and Visiting Associate Professors Sinkler and Woodbury; Assistant Professors Clark, Levin and Reed; Mrs. Ryerson.

American Studies is a program which searches for an understanding of the relations among institutions, ideas, and aesthetic forms within the American experience. By combining work in a number of the traditional scholarly disciplines, it aims to place the student in a position where he can see and can make some statements about these relations.

Major Program. A major in American Studies is required to develop a program of courses and independent reading which will enable him to pass a series of intensive written and oral examinations in the spring semester of the senior year. These examinations will cover:

1. The main forces which have shaped American life throughout American history. An American Studies major must understand changes in political and social institutions, the forms of economic organization, the competing myths and ideologies, and responses to world politics which have developed in the American experience.

2. The classic writings and other creative efforts in the American intellectual tradition. These include significant works in literature, art, philosophy, and political and social theory.

A major in American Studies will be required to take both terms of the introductory course (American Studies 11, 12) and to work out for himself a program of study inside and outside of courses which will enable him to pass the comprehensive examinations of the senior year. Such a program of study should include a primary emphasis on history and literature (at least three courses in each field), and a competent knowledge of at least one other field (at least two courses), viz., economics, political science, anthropology and sociology, philosophy, religion, art, or music.

* On leave 1969–70; † On leave first semester, 1969–70;

A major in American Studies will be given a reading list upon acceptance into the major. The works which appear on the reading list will constitute a basic part of the comprehensive examinations in the spring semester of the senior year.

Beginning with the class of 1970, no more than thirty students from each class will be admitted to the major program in American Studies. To be eligible for admission to the major program, a student must take American Studies 11, 12, before the end of the sophomore year. All students who are accepted in the major program must take the Junior Seminar in American Civilization, the Junior Tutorial course, and the two Senior Tutorial courses listed in the departmental offerings. In conjunction with the senior tutorial courses, each student in a major program will write an original essay that develops a form of interdisciplinary inquiry which has been approved by the Department.

Honors Program. All students majoring in American Studies are required to take the six interdisciplinary courses offered by the Department. Recommendations for honors will be made at the end of the senior year after the comprehensive examinations and the completion of the senior essay.

Distribution Sequences. A student taking a three-course sequence will be expected to take both terms of the introductory course (American Studies 11, 12) and a third course that is included in one of the fields in Division II (Social Science) of the curriculum; a student taking a two-course sequence in the Department will be allowed to take only American Studies 11, 12.

Unless otherwise specified all courses are open to freshmen.

11, 12. An Introduction to American Civilization. This course will explore the significant interrelations among politics, economic organization, literature, religion, art, etc. in selected moments of American history. The center of attention in the course will be the investigation of large cultural configurations in the American experience rather than a comprehensive historical treatment. Relevant problems of meaning and method in this kind of interdisciplinary inquiry will also be considered.

In the first semester 1969–70, the topic will be *Alexis de Tocqueville and the Problem of Consensus in American Democratic Culture,* a study of conflict and consensus within the political, religious, and social institutions of Jacksonian America, with particular emphasis on the problems of slavery and abolitionism. By examining the values that are reflected in the institutions and literature of the period, the course seeks to answer the question of whether there were two cultures, one Northern and one Southern, or only one in Ante-Bellum America.

In the second semester, American studies 12 will focus on the assimilation of ethnic and racial groups within American Society and the rise of Black Power.

Elective for Freshmen. First and second semesters. The staff.

Labor Economics. Same course as Economics 21.
First semester.

The American Economy. Same course as Economics 24.
Second semester. Professor Nelson.

American Economic History. Same course as Economics 28.
Second semester. Omitted 1969–70. Professor Aitken.

American Art. Same course as Fine Arts 38.
Elective for Sophomores. Second semester. Mr. Roberson.

Readings in American Literature. Same course as English 60f.
Requisite: At least two semester courses in American literature. Elective for Juniors. Admission with the consent of the instructor. Seminar course limited to 15 students. First semester. Professor Guttmann.

American Literature I. Same course as English 61.
Elective for Sophomores. First semester. Mr. Peterson.

American Literature II. Same course as English 62.
Elective for Sophomores. Second semester. Professor Guttmann.

American Literature III. Same course as English 63.
Elective for Sophomores. First semester. Professor Pritchard.

Religion in America. Same course as Religion 34.
Elective for Juniors. Second semester. Professor B. Morgan.

American Social Structure. Same course as Sociology 12.
Elective for Freshmen. Second semester. Professor Dizard.

American Government. Same course as Political Science 21.
First semester. Professor Ziegler.

Political Parties. Same course as Political Science 31.
First semester. Professor Arkes.

American Constitutional Development. Same course as Political Science 41.
First semester. Professor Latham.

American Political Thought. Same course as Political Science 48.
Second semester. Professor Kateb.

The History of American Society. Same course as History 55.
First semester. Professor Rozwenc.

The History of American Society. Same course as History 56.
Second semester. Professor Rozwenc.

Seminar in Southern History. Same course as History 57.
Limited to 15 students. First semester. Omitted 1969–70. Professor Hawkins.

The Progressive Generation. Same course as History 58.
Limited to 15 students. Second semester. Professor Greene.

Society and Politics in Jacksonian America. Same course as History 59.
First semester. Professor Ward.

The New Deal Decade. Same course as History 60.
Limited to 15 students. Second semester. Professor Rozwenc.

Foundations of American Civilization. Same course as History 61.
First semester. Omitted 1969–70. Professor Greene.

American Diplomatic History. Same course as History 62.
Second semester. Professor Levin.

Conference Course in American Intellectual History. Same course as History 63.
Elective for Juniors on permission of instructor. First semester. Professor Commager.

Conference Course in American Intellectual History. Same course as History 64.
Elective for Juniors on permission of instructor. Second semester. Professor Commager.

Seminar in American Educational History. Same course as History 66.
Limited to 15 students. Second semester. Mr. Clark.

Race in American History. Same course as History 67.
Limited to 25 students. First semester. Professor Sinkler.

Ideas in American Culture. Same course as History 72.
Second semester. Professor Ward.

67. **Seminar in American Civilization.** An interdisciplinary investigation of selected aspects of American civilization.
Required of all junior majors in American Studies. One two-hour seminar weekly. First semester. The Department.

68. **Junior Tutorial Course.** An independent exploration of an interdisciplinary problem in American civilization leading to the preparation of a senior essay.
Required of all junior majors in American Studies. Second semester.

77. Senior Tutorial Course. The preparation of a senior essay that develops a form of interdisciplinary inquiry in American civilization which has been approved by the Department.

Required of all senior majors. First semester.

78. Senior Tutorial Course. The preparation of a senior essay that develops a form of interdisciplinary inquiry in American civilization which has been approved by the Department.

Required of all senior majors. Second semester.

97. Special Topics. Independent Reading Course.
First semester.

98. Special Topics. Independent Reading Course.
Second semester.

ANTHROPOLOGY AND SOCIOLOGY

Professors Birnbaum and Pitkin (Chairman); Assistant Professors Babb and Dizard.

The Anthropology and Sociology program is designed to complement the work of the other disciplines in the Social Science division by bringing to bear the specific resources of each discipline upon the understanding of man in society and culture. Emphasis is placed upon traditional as well as upon modern societies and upon man in the past as well as in the present.

Major Program: Students majoring in the department will be able to emphasize either an anthropology or sociology curriculum. In the first instance students will normally take (although not necessarily in this order) Sociology 11 or 12, Anthropology 11, 12, 21 or 23, 24 or 26, 31 and 40 or 42. Candidates for degrees with honors will include 77, 78.

Those who pursue a sociology curriculum will normally take Anthropology 11 or 12, Sociology 11, 12, three additional courses in sociology at Amherst College, and three additional courses in anthropology at Amherst or in sociology from Four-College electives. Candidates for degrees with honors will include, as seniors, Sociology 77, 78 and must have a reading knowledge of either French or German.

A comprehensive examination will be given to both *rite* and honors candidates. Interdepartmental majors in combination with a number of other fields may be arranged for honors candidates. These requirements in sociology take effect for the Class of 1971 and following.

Distribution Sequences: A two-course sequence will be Anthropology 11 or 12 and any other course in the department, or Sociology 11 or 12 and any other course in the department. A three-course sequence will be Anthropology 11 or 12 and any other two courses in the department, or Sociology 11 or 12 and any other two courses in the department.

Anthropology

11. The Evolution of Culture. An analysis of culture in evolutionary perspective, regarding it as the distinctive adaptive mode of man.

Elective for Freshmen. First semester. Professor Pitkin.

12. Peoples of Africa. A general survey of Subsaharan ethnography, including a final section on modern political developments.

Elective for Freshmen. Second semester. Professor Babb.

21. Comparative Social Organization. A general survey of Indian civilizations together with comparative materials from other areas of South and Southeast Asia.

Elective for Sophomores. First semester. Professor Babb.

24. Comparative Mythology. Comparative analysis of a number of mythic systems with special reference to the problem of human psycho-cultural diversity or unity.

Elective for Sophomores. To alternate with Anthropology 26. Second semester. Professor Pitkin.

26. Peasant Society and Culture. An examination of the concept of peasantry in addition to an analysis of a number of peasant societies drawn both from literature and the social sciences.

Elective for Sophomores. To alternate wtih Anthropology 24. Second semester. Omitted 1969–70. Professor Pitkin.

31. Anthropological Approaches to the Study of Religion. An examination of anthropological theory and method relating to the analysis of systems of religious belief and practice. Two-hour weekly seminar.

Limited to fifteen students. Elective for Juniors with the consent of the instructor. First semester. Professor Babb.

36. Culture and Personality. An examination of theoretical and methodological issues concerning the relationship between personality and culture. Two-hour weekly seminar.

Limited to fifteen students. Elective for Juniors with consent of the instructor. Second semester. Professor Pitkin.

40. Anthropological Theory: I. A critique of anthropological theory from the mid-nineteenth century to the present with an emphasis on the structural-functional approach. Two-hour weekly seminar.

Limited to fifteen students. Elective for Juniors with the consent of the instructor. To alternate with Anthropology 42. Second semester. Omitted 1969–70.

42. Anthropological Theory: II. A critique of anthropological theory from the mid-nineteenth century to the present, with an emphasis on the cultural-historical approach. Two-hour weekly seminar.

Limited to fifteen students. Elective for Juniors with consent of the instructor. To alternate with Anthropology 40. Second semester. Professor Babb.

77, 78. Honors Course.

First and second semesters. The Department.

97, H97, 98, H98. Special Topics. Independent Reading Courses. Full or half course.

First and second semesters. The Department.

Sociology

11. Introduction to Sociology. An historical introduction to sociology. The origins of sociological thought in the philosophies of history and politics, and the influence of the French and industrial revolutions. National intellectual and political traditions and sociology. The development of social research. A number of classical sociologists and of historically important enquiries will be studied. Three hours per week.

Elective for Freshmen. First semester. Professor Birnbaum.

12. American Social Structure. An analysis of continuity and change in American society. The relationships between social structure and the life styles, values and aspirations of social classes. Inequality and social movements. The role of the corporation and the corporate elite. Power elite versus pluralism.

Elective for Freshmen. Second semester. Professor Dizard.

20. Sociology of Intellectual Life. The social setting and organization of modern intellectual life in America and Europe. The emergence of the intellectuals, their cultural and political roles. The development of a technical intelligentsia. Bohemian and bourgeois modes of culture, the market

for culture, and the bureaucratisation of the spirit. Universities and the alleged rise of a knowledge elite. A reading knowledge of a European language is strongly recommended.

Elective for Juniors and Seniors. Second semester. Professor Birnbaum.

21. Race and Ethnic Relations. A detailed analysis of race and ethnic relations in American society with focus on the experience of several major ethnic groups in addition to a comprehensive examination of the Negro in America. Issues to be dealt with will include racism, assimilation, ethnic identity, and black culture.

Elective for Juniors and Seniors. First semester. Professor Dizard.

23. The Universities. Historical origins of the modern universities and national university traditions. Current changes in the social composition of student bodies and in the relationship of universities to society: elite formation. Liberal education and the "knowledge factory." The internal organization of universities. One two-hour seminar per week.

Elective for Juniors and Seniors. First semester. Omitted 1969–70. Professor Birnbaum.

24. Sociology of Religion (Colloquium). Theological and sociological perspectives on current religious issues. The contribution of the classical tradition in the sociology of religion. A consideration of secularization and the Christian-Marxist dialogue.

Requisite: Sociology 11 or Religion 11 or consent of the instructor. Second semester. Professors Birnbaum and Mudge.

30. Social Change. An examination of classical and contemporary treatments of change. The sources of change and the phenomenon of social conflict. Orderly and revolutionary change. The role of the intellectual and ideology. The problems of analyzing modernization and economic development.

Elective for Juniors with the consent of the instructor. Second semester. Professor Dizard.

31. Karl Marx. An examination of the sources and development of the thought of Karl Marx. Intensive reading in the original texts. Consideration of current interpretations of Marx. Reading knowledge of either French or German is required.

Elective for Juniors and Seniors with the consent of the instructor. First semester. Professor Birnbaum.

77.78. Honors Course. First and second semesters. The Department.

97. H97. 98. H98. Independent reading courses. Full or half course. First and second semesters. The Department.

Asian and African Studies. See page 158.

ASTRONOMY

Professors Harrison, Irvine (Chairman), Seitter and Strong; Associate Professor Huguenin; Assistant Professors Adler, Arny, Cogan, Dent, and Taylor.

A joint Astronomy Department provides instruction at Amherst, Mount Holyoke and Smith Colleges and the University of Massachusetts. Introductory courses are taught separately at each of the four institutions; advanced courses are taught jointly.

ASTFC indicates courses offered by the Four-College Astronomy Department. These courses are listed in the catalogs of all four institutions.

Two alternative programs are available leading to a degree in astronomy. The honors program is designed to meet the needs of the student who wishes to prepare for graduate work in astronomy or astrophysics, or who wishes a combined honors program with mathematics or physics. The *rite* major is available to the student who wishes to study astronomy largely for its cultural values, but who does not plan graduate study.

The facilities of all four institutions are available to departmental majors. Should the needs of a thesis project so dictate, the Department may arrange to obtain special materials from other observatories.

Major Program: The minimum requirements for the *rite* major are Astronomy 22, 73, 74, and two courses from 37, 38, 43 and 44; Mathematics 11, 12 and 21; Physics 13, 14 and 26.

A student who considers majoring in astronomy should consult with the Department as early as possible in his college career. Honors students should complete Mathematics 12 and Physics 13 before the start of the sophomore year.

An appropriate program for the student who achieves advanced placement in physics or astronomy will be devised on an individual basis, in consultation with the Dean and the Physics Department.

Honors Program. Minimum Requirements: Astronomy 22, 37 or 38, 43, 44, 77, and 78. Mathematics 11, 12 and 21; Physics 13, 14, 26, 27, 33 and 58.

In exceptional cases Astronomy 11 may be substituted for Astronomy 22 in either the *rite* or honors program.

Distribution Sequence: A two-course sequence may consist of any two courses in astronomy (Astronomy 11 with either 31 or 34 is recommended), or Astronomy 22 and Physics 14. A three-course sequence may consist of any three courses in astronomy.

11. Introductory Astronomy. A course designed primarily for students not majoring in the physical sciences. The properties of the astronomical universe and the methods by which astronomers investigate it are discussed. The course describes the nature and properties of stars, our Galaxy, external galaxies, cosmology, the origin and character of the solar system, and the question of extraterrestrial life. Occasional observing with the 18" Amherst refracting telescope and demonstrations with the Spitz planetarium. Three hours of classroom work per week; observing sessions or laboratories are arranged during the semester.

Elective for Freshmen. First semester. Professor Cogan.

22f. Introduction to Astronomy and Astrophysics. For astronomy majors or others interested in a quantitative introductory course. A description of our present knowledge of the universe and the means by which this knowledge has been obtained. The course considers the properties of the solar system, individual and multiple stars, interstellar matter, our galactic system and external galaxies. Three hours of lecture, 1 hour of observing or a laboratory per week. Same course as ASTFC 22.

Requisite: Physics 13 and 14. (Physics 14 may be taken concurrently.) Not open to students who have completed Astronomy 11. Elective for Sophomores. First semester. Professor Strong.

22. Introduction to Astronomy and Astrophysics. Same description as Astronomy 22f. Second semester. Professor Cogan.

31. Space Science: Topics of Current Astronomical Research. A discussion of selected topics from current astronomical research, intended primarily for non-science majors. Topics may include the aims and results of space research and exploration, recent developments in stellar evolution, cosmology, and current research in radio astronomy. No mathematical preparation beyond algebra and elementary trigonometry is required. Three hours of classroom work per week. Same course as ASTFC 31.

Requisite: Astronomy 11 or 22. Elective for Sophomores. First semester. Professor Arny.

34. Development of Astronomy. The progress of astronomy is traced from prehistoric petroglyphs to the space age. Emphasis is placed upon the development of important ideas in the field and upon the relation of astronomy to other cultural trends. Supplemented by occasional use of the planetarium and the departmental telescopes. Three hours of classroom work per week. Same course as ASTFC 34.

Requisite: Astronomy 11 or 22. Elective for Freshmen. Second semester. Professor Adler.

37. Astronomical Observation. An introduction to the techniques of gathering and analyzing astronomical data. Subjects to be covered depend some-

what on individual interests: Photography, calibration of photographs; photometry; spectroscopy and classification of spectra; determination of stellar temperatures, masses and radii; basic radio astronomy; introduction to telescope design and use: the astronomical distance scale. Same course as ASTFC 37.

Requisite: Astronomy 11 or 22 and Physics 14. Elective for Sophomores. First semester. Professor Adler.

38. Techniques of Modern Astronomy. An introduction to modern methods of astronomical observation and data reduction. Specific techniques of optical astronomy, radio astronomy, and space astronomy will be discussed and analyzed. Laboratory experiments and field observations will also be performed by students during the semester. Same course as ASTFC 38.

Requisite: Physics 14. Elective for Sophomores. Second semester. Professor Huguenin.

43. Astrophysics I. Basic topics in astrophysics. Equilibrium configurations and the physical state of stellar interiors. Polytrope models. Interaction of radiation and matter, and radiative transfer. Radiative and convective equilibrium. Study of opacity. Same course as ASTFC 43.

Requisite: Physics 27 or permission of instructor. Elective for Juniors. First semester. Professor Harrison.

44. Astrophysics II. Continuation of basic topics in astrophysics. Nuclear energy sources. Stellar atmospheres and limb darkening. Electron degenerate configurations. Star formation. Introduction to simple model building. Stellar evolution. Elementary plasma physics. Same course as ASTFC 44.

Requisite: Astronomy 43. Elective for Juniors. Second semester. Professor Harrison.

73, 74. Reading Course. Required of *rite* majors. Students electing this course will be required to do extensive reading in the areas of astronomy and space science. Two term papers will be prepared during the year on topics acceptable to the Department.

Elective for Seniors. First and second semesters. The Department.

77, 78. Senior Honors. Opportunities for theoretical and observational work on the frontiers of science are available in cosmology, cosmogony, radio astronomy, planetary atmospheres, relativistic astrophysics, solar astronomy, laboratory astrophysics, gravitational theory, infrared balloon astronomy, stellar astrophysics, spectroscopy, and exobiology. Facilities include the Laboratory for Infrared Astrophysics, balloon astronomy equipment (16-inch telescope, cryogenic detectors), a meter-wavelength radio astronomy array, access (under supervision) to the 120-foot NEROC radio antenna, a modern 16-inch Cassegrain reflector, and 18-inch, 8-inch, and 7-inch refractors. An excellent astronomical library and access to the CDC 3600 computer at the University of Massachusetts permit wide opportunities for

theoretical honor programs. An honors candidate must submit an acceptable thesis and pass an oral examination. The oral examination will consider the subject matter of the thesis and other areas of astronomy specifically discussed in astronomy courses.

Elective for Seniors. Required of honors students. First and second semesters. The Department.

BIOLOGY

Professors Brower, Hexter, Kidder, Wood and Yost*; Associate Professor Leadbetter (Chairman); Assistant Professors Ellis, Jones, Wallace and Zimmerman*; Dr. Ives.

Major Program. A major in biology will consist of at least six semester courses in biology and two semester courses of organic chemistry. Biology 21, 22, 23, and 24, preferably in sequence, are required for majors. Biology 11–12 will not count toward the major without approval by the Department.

All majors must take a comprehensive examination during the senior year. The examination, which will cover the different areas of biology, may be either oral, written, or a combination of the two, as determined by the Department.

Specific requirements may be modified with the approval of the Department. It is recommended that Freshmen intending to major in biology concentrate during their freshman year on necessary background courses in mathematics, physics, or chemistry. Biology majors should omit Problems of Inquiry 3.

Honors Program. Honors work in biology is intended to offer an introduction to the purposes and methods of biological research. It is an excellent preparation for those students who wish to become professional scientists or who wish to acquire first-hand knowledge of the methods of modern science.

Candidates for the degree with honors should have completed, by the beginning of senior year, Biology 21, 22, 23, and 24. Honors candidates must elect Biology 77–78 and must complete, by the end of the senior year, a minimum of eight full courses in biology. Specific requirements may be modified with the approval of the Department.

The work for honors in biology consists of two main activities: (a) participation in a seminar in which the candidate reports on recent literature dealing with current scientific investigations; (b) an original investigation under the direction of some member of the staff. The candidate writes a thesis presenting the results of his research to the whole Department.

* On leave 1969–70.

Distribution Sequences. The following three-semester distributional sequences are offered (the first two courses in each case satisfy the requirement for a two-semester distribution sequence):

1. Biology 11, Biology 12, and any other course in the Department for which the student has the requisites.
2. Chemistry 11 or 31, Biology 21.
3. Chemistry 11 or 31, Biology 21, and either Biology 22, 23 or 24.

11. Introduction to Biology I. An introduction to biological principles as a part of a program of liberal study. Recommended as a broad view of biology for non-science majors. Normally does not count toward a biology major. Three classroom hours and four hours of laboratory work per week.

Elective for Freshmen. First semester. Professors Brower and Wood.

12. Introduction to Biology II. A continuation of Biology 11.

Requisite: Biology 11 or equivalent. Elective for Freshmen. Second semester. Professor Kidder.

21. Genetics and Cytology. A study of the basic facts of heredity, an analysis of cellular structure, and a consideration of the various hypotheses for the action of genes in the control of cellular and multi-cellular processes. Four classroom hours and four hours of laboratory work per week.

Requisite: concurrent registration in Chemistry 11 or equivalent. Required for biology majors. Elective for Sophomores. Freshmen may elect it with the consent of the instructor. First semester. Professors Hexter and Jones.

22. Developmental Biology. A study of the development of animals and plants, leading to the formulation of the principles of development, and including an introduction to experimental embryology and developmental physiology. Four classroom hours and four hours of laboratory per week.

Requisite: Biology 21. Required for biology majors. Elective for Sophomores. Freshmen who have credit for Biology 2 may elect Biology 22 with the consent of the instructor. Second semester. Professors Ellis and Wallace.

23. Cell Biochemistry and Physiology. A study of the physiology and biochemistry of general and specialized cell types. Four classroom hours and four hours of laboratory work per week.

Requisite: one semester each of biology and chemistry, and concurrent registration in Organic Chemistry. Required for biology majors. Elective for Juniors. Elective for Sophomores who have credit for Biology 22, with the consent of the instructor. First semester. Professors Kidder and Leadbetter.

24. Evolutionary Biology. History of evolutionary ideas, principles of classification, comparative anatomy, genetics of individuals and populations, analysis of and evidence for natural selection and adaptation, the fossil record and the evolution of man.

Requisite: Biology 21. Required for biology majors. Elective for Juniors. Elective for Sophomores who have credit for Biology 21 with the consent of the instructor. Second semester. Professors Brower and Wood.

41. Ecology. A study of the interrelations of living organisms and their environment. The natural regulation of animal numbers, problems of population, natural selection, and the origin and distribution of species will be discussed. Three classroom hours and four hours laboratory or field work per week.

Requisite: Biology 21 or the consent of the instructor. Elective for Juniors. First semester. Professor Brower.

42. Bacteriology. A study of the ecology, physiology, and biochemistry of microorganisms, with special emphasis on the non-pathogenic bacteria. Three classroom hours and four hours laboratory per week.

Requisite: Biology 23. Elective for Juniors. Limited to twenty students. Second semester. Professor Leadbetter.

43. Comparative Physiology. A study of aspects of the functioning of various systems of selected animals, both vertebrate and invertebrate. Three classroom hours and four hours laboratory per week.

Requisite: one semester of biology. Elective for Juniors. Limited to twelve students. First semester. Professor Wallace.

45. Vertebrate Paleontology. The evolution of vertebrates as shown by the study of fossils, and the relationship of environment to evolution. Three classroom hours and four hours laboratory work per week. Same course as Geology 45.

Requisite: Biology 24 or Geology 12. Elective for Juniors. Limited to twelve students. First semester. Professor Wood.

46. Biology of Protozoa. A study of animal microorganisms with special emphasis on physiology, biochemistry, and development. Three classroom hours and four hours laboratory per week.

Requisite: Biology 23 and Organic Chemistry (which may be taken concurrently). Elective for Juniors. Limited to twelve students. Second semester. Professor Kidder.

47. Advanced Developmental Biology. An analysis of the present views of development at the cellular and biochemical levels with special attention to the genetic control of embryonic differentiation and to cellular interaction in morphogenesis. Three classroom hours and four hours laboratory per week.

Requisites: Biology 22 and 23. Elective for Seniors. Elective for Juniors who have credit for Biology 23 and with the consent of the instructor. Limited to twelve students. First semester. Professor Ellis.

52. Seminar in Genetics. A study in depth of one of several topics in genetics. Topics will vary from year to year. Primary sources will be used when available. Three hours per week.

Requisite: Biology 21 and the consent of the instructor. Elective for Juniors. Limited to fifteen students. Second semester. Professor Jones.

54. Seminar in Radiation Biology. A study of selected problems of current interest in radiation biology. The topics will vary from year to year. Extensive use will be made of primary sources. Two classroom hours per week. Students who take Biology 54 will not be allowed to take Biology 52, and *vice versa.*

Requisites: Biology 21 and 23. Elective for Seniors not honoring in Biology. Limited to twelve students. Second semester. Omitted 1969–70. Professor Yost.

56. Seminar in Animal Behavior. Physiological, genetic and evolutionary aspects of invertebrate and vertebrate behavior. The emphasis on topics will vary from year to year. Two and occasionally three classroom hours per week. Does not satisfy departmental requirements for Biology Honors candidate.

Requisite: Biology 21 or Biology 11 and 12, and consent of the instructor. Second semester. Omitted 1969–70. Professor Zimmerman.

77. Biology Honors. All honors students will take this course. The work consists of a combined seminar, specialized seminars, and individual research. Students will elect one of the following specialized seminar courses with the approval of the Department: Biochemistry and Microbiology, Evolution, Developmental Biology, Genetics, and Radiation Biology. The course is designed for honors candidates but is open to other advanced students with the consent of the Department.

Requisite: Biology 21, 22, 23, and 24. Elective for Seniors. First semester. The Staff.

D78. Biology Honors. A continuation of Biology 77. A double course.

Elective for Seniors. Second semester. The Staff.

97, H97. Special Topics. Independent Reading or Research Course. Half or full course, as arranged.

First semester.

98, H98. Special Topics. Independent Reading or Research Course. Half or full course, as arranged.

Second semester.

BIOPHYSICS

Advisory Committee Professors Dempesy, Kropf (Chairman), Silver and Yost*; Associate Professors Fink and Leadbetter; Assistant Professors Duffy, Ellis, Offenhartz and Robinson.

*On leave 1969–70.

A student may receive the B.A. degree from Amherst with an interdepartmental major in biophysics. This program is designed for those few capable students who either wish the breadth of experience this program provides or who wish to prepare for graduate study in this field. The course of study is organized around course offerings of the various science departments whose disciplines are fundamental to work in biophysics.

Major Program. It should be noted that some of the introductory departmental courses are bracketed, since it is hoped that they will have been satisfied upon admission. If not, they should be taken as required. Requirements: Biology 21 and 22 or 23; Chemistry (11), 31, 43, 44, 47 and 48; Mathematics (11), 12 and 21, Physics (13), 14, 28 and 26 or 34. Substitutions or omissions may be made in certain cases with the advice and approval of the chairman. Problems of Inquiry 3 is not required of biophysics majors.

It is important that a prospective biophysics major consult with the departmental advisor early in his academic career in order to determine his course selections and prospective seminar and honors work.

Honors Program. Candidates for the degree with honors should elect Biophysics 77 and 78 in addition to the above program. An honors candidate may choose to do his senior honors work with any faculty member from any of the various science departments who is willing to direct relevant thesis work. The comprehensive examination will be administered by members of the advisory committee.

77, D78. Biophysics Honors. The work consists of a seminar dealing with problems of current interest in biophysics and the preparation of a thesis based upon an individual investigation under the direction of a faculty member. Full course first semester. Double course second semester.

The Committee.

97, H97, 98, H98. Special Topics. Independent Reading. Full or half course. First and second semesters.

BLACK STUDIES

Black studies is an interdisciplinary program drawn from the Humanities and Social Sciences that emphasizes the development, experience and achievements of Black peoples in the United States and throughout the world.

Major Program. A student who begins a major in Black Studies as a freshman or sophomore in 1969–70 may expect to take ten courses in the program, including the introductory course (Black Studies 11), a required seminar in his junior year (Black Studies 67), and a program of eight other

courses, selected in consultation with faculty advisors, at least four of which will exhibit a coherent structure relevant to a theme, a discipline, or a geographical area.

A major may also expect, with the consent of the program's director, to be able to spend one semester at another educational institution in the spring semester of his sophomore year or during his junior year.

A student in the class of 1972 or 1973 who wishes to major in Black Studies should elect Black Studies 11 and begin planning with his advisor his sequence of courses. At the time he declares his major, he will decide whether his program's emphasis falls in the area of the Humanities or the Social Sciences, and complete his distribution requirements accordingly.

11. An Introduction to Black Studies. An interdisciplinary investigation of the development, experience and achievements of Black peoples.

Elective for Freshmen with the consent of the instructors. First semester. Professors Dizard and Levin.

67. Seminar in Black Studies. An integrative seminar for Black Studies majors, to be taken in the junior year. To be offered for the first time in 1970–71.

The following courses are available for inclusion in a Black Studies program in 1969–70:

Introduction to American Civilization. Same course as American Studies 11–12.

First and second semesters. The Department.

Peoples of Africa. Same course as Anthropology 12.

Elective for Freshmen. Second semester. Professor Babb.

Comparative Social Organization. South and Southeast Asian Civilizations. Same course as Anthropology 21.

Elective for Sophomores. First semester. Professor Babb.

Comparative Mythology. Same course as Anthropology 24.

Elective for Sophomores. Second semester. Professor Pitkin.

Anthropological Approaches to the Study of Religion. Same course as Anthropology 31.

Limited to fifteen students. Elective for Juniors with the consent of the instructor. First semester. Professor Babb.

American Social Structure. Same course as Sociology 12.

Elective for Freshmen. Second semester. Professor Dizard.

Race and Ethnic Relations. Same course as Sociology 21.

Elective for Juniors and Seniors. First semester. Professor Dizard.

Social Change. Same course as Sociology 30.

Elective for Juniors and Seniors, with the consent of the instructor. Second semester. Professor Dizard.

Economic Development. Same course as Economics 36.
Requisite: Economics 11. Second semester. Professor Mead.

Literature of Poverty, Oppression, Revolution, and the Struggle for Freedom. Same course as English 25 (3).
Limited to fifteen students. Elective for Freshmen. First Semester. Mrs. Olsen.

Introduction to the History of Art. Same course as Fine Arts 11.
Elective for Freshmen. First semester. Professor Schmalz.

The Heritage of African Art. Same course as Fine Arts 43.
Elective for Freshmen, with the consent of the instructors. Limited to fifteen students. First semester. Professors Trapp, Schmalz, and visitors.

The History of American Society. Same course as History 55-56.
First and second semesters. Professor Rozwenc.

Race in American History. Same course as History 67.
Limited to twenty-five students. First semester. Professor Sinkler.

Mexico and Latin America. Same course as History 68.
Second semester. To be offered once only. Professor Ruiz.

Comparative Colonial History. Same course as History 76.
Limited to fifteen students with consent of the instructor. Second semester. Professor Gifford.

Urban Politics. Same course as Political Science 32.
Admission with the consent of the instructor. Second semester. Professor Arkes.

American Constitutional Development. Same course as Political Science 41.
First semester. Professor Latham.

Politics in Developing Nations. Same course as Political Science 44.
Second semester. Mr. Schloming.

Comparative Politics. Same course as Political Science 54.
Limited to fifteen students, with consent of the instructor. Second semester. Mr. Schloming.

Educational Psychology. Same course as Psychology 34.
Requisite: Psychology 11. Elective for Sophomores. Limited to fifteen students with the consent of the instructor. Second semester. Professor Grose.

Introduction to Islam. Same course as Religion 17.
Requisite: Religion 11 or 13. First semester. Professor Husaini.

Religion in America. Same course as Religion 34.

Requisite: Religion 11 or consent of the instructor. Elective for Juniors. Second semester. Professor Morgan.

Minority Expression and Racial Identity in Latin American Literature. Same course as Spanish 27.

Requisite: Reading knowledge of Spanish. First semester. Professor Kent.

A list of other appropriate courses offered at Smith and Mount Holyoke Colleges and the University of Massachusetts is available in the Registrar's Office.

CHEMISTRY

Professors Beebe (emeritus), Kropf, Silver, and Whitney (Chairman); Associate Professor Fink; Assistant Professors Kittelberger, Offenhartz, Sargent* and Snellgrove.

Major Program. A student considering a major in chemistry should consult a member of the Department as early as possible, preferably during his freshman year. This will help the student elect a program which best fits his interests and abilities and which makes full use of his previous preparation. Programs can be arranged for students considering careers in chemistry, chemical physics, biochemistry, biophysical chemistry, medical research, medicine, and secondary school science teaching.

The minimum requirements for a major in chemistry are Chemistry 31 or 31s, 32, 43, 44, 47, 48, Mathematics 12 and Physics 14. Chemistry majors may omit Problems of Inquiry 3, and should take Chemistry 11, Mathematics 11 or 11s and Physics 13 or 13s in the freshman year. A reading knowledge of German and/or Russian is desirable for a student planning graduate work in chemistry.

Honors Program. A candidate for the degree with honors will usually also elect Chemistry 61s, 77 and D78. Normally an honors candidate will complete the courses required of a major by the end of the junior year. It is highly desirable that an honors candidate, especially if his field of interest is physical chemistry, elect Mathematics 21 and one or more additional semesters of physics and mathematics beyond those required.

The honors program described above assumes that the student will have completed physical chemistry and organic chemistry by the end of his junior year, and this program is most desirable for those planning to go on to graduate study in chemistry. The honors candidate who for some reason is unable to complete the sequence Chemistry 43, 44, 47, 48 by the end of his junior year may, with the permission of the Department, defer either organic chemistry or physical chemistry until his senior year and substitute suitable

*On leave 1969–70.

biology or physics courses for Chemistry 61s and any special topics courses which may be required. These exceptions and the nature of the substituted courses will be granted on an individual basis by the departmental advisor.

Honors candidates will attend the chemistry seminar during their junior and senior years, participating in it actively in the senior year. All chemistry majors should attend the seminar in their senior year. At this seminar discussions of topics of current interest will be conducted by staff members, visitors and students.

In the senior year an individual thesis problem will be selected by the honors candidate in conference with some member of the Department. Current areas of research in the Department are: theoretical chemistry, quantum mechanical calculations for porphyrin and other compounds, nucleophilicity of carbon—carbon bonding electrons, reactions of aromatic anions, chemistry of the visual process, mechanism of organic reactions, enzyme catalyzed processes, coordination chemistry and reaction mechanisms of metalloporphyrins, nuclear chemistry, fundamental kinetics in gaseous systems and at solid surfaces studied by molecular beam techniques, spectroscopic studies of the solid state.

Each candidate will submit a thesis based upon his research work. Recommendations for the various levels of honors will be made by the Department on the basis of the thesis work, the comprehensive examination, and course performance.

Distribution Sequences. Distribution sequences may be satisfied in chemistry in the following ways:

Two-course sequence

a) Any two courses in chemistry

b) Chemistry 11 or 31 and Biology 21 or Physics 13 or a physics course for which Physics 13 is prerequisite

Three-course sequence

a) Any three courses in chemistry

b) Chemistry 11 and 31 or 32 and Biology 21 or Physics 13 or a physics course for which Physics 13 is prerequisite

Unless otherwise specified, all courses are open to freshmen.

10f. Fundamental Concepts of Physical Science. Same course as Physics 10f. By focusing on topics of fundamental significance in physical science, the course is designed to enable students with a limited background, but a serious interest in science to profit more fully from established departmental sequences in chemistry and physics.

Students with the following backgrounds might consider seeking admission to the course prior to enrolling in Chemistry 11 or Physics 13:

a. No secondary school chemistry or physics.

b. Only one year of secondary school chemistry or physics, but not both.

c. One year of both secondary school chemistry and physics, but one of which was taken prior to the third year of secondary school.

d. A secondary school chemistry or physics course which the student feels did not provide a fundamental background in the basic concepts of the discipline.

This course is designed for students who intend to undertake substantial work in science at Amherst (i.e. at least Chemistry 11, 31, and Physics 13, 14) and will not be appropriate to students seeking to satisfy distribution requirements. Four hours of classroom work and four hours of laboratory per week. Offered only when there is sufficient need.

Elective for freshmen with the consent of the instructor. First semester. Omitted 1969–70. Professors Watson and Whitney.

11. Introductory Chemistry. Beginning with a discussion of the origin and formation of the elements, this course will study the structure of atoms, the formation of molecules, the nature of interatomic and intermolecular forces, the nature of chemical reactions in terms of rate and position of equilibrium, and the chemical basis of biological processes. Three class hours and three hours of laboratory per week.

Elective for Freshmen. First semester. Professors Fink, Kittelberger, Snellgrove and Whitney.

11s. Introductory Chemistry. Same description as Chemistry 11.

Elective for Freshmen. Second semester. Professors Fink and Kittelberger.

31. Elementary Chemical Thermodynamics. A systematic treatment of the laws of thermodynamics with emphasis upon their usefulness in describing chemical systems at equilibrium. There will be some discussion of the general import and applicability of thermodynamics. Included will be a development of elementary statistical thermodynamics and the molecular basis of thermodynamic functions. Laboratory work will illustrate the principles discussed in class as well as provide the student with experience in quantitative technique. Chemistry 11 and 31 constitute a full-year program providing a general introduction to chemistry. Three hours lecture, one hour of recitation and four hours of laboratory per week.

Requisite: Physics 13 and Chemistry 11. (These requirements may be waived for exceptionally well prepared students. Consent of the instructor is required.) Mathematics 11 or its equivalent. Elective for Freshmen with the consent of the instructor. First semester. Professors Snellgrove and Kropf.

31s. Elementary Chemical Thermodynamics. Same description as Chemistry 31.

Elective for Freshmen. Second semester. Professors Snellgrove, Kropf and Whitney.

32. Inorganic Chemistry. A one semester course which attempts a systemization of the fundamental properties of inorganic compounds through periodic correlations. Atomic structure, chemical bonding theories, acid-base systems and selected areas of descriptive inorganic chemistry (inorganic

polymers, coordination compounds, compounds of metals in low oxidation states) are discussed. The laboratory stresses quantitative techniques and calculations as applied to equilibrium systems and electrochemistry and provides experience in synthetic work.

Requisite: Chemistry 11 and Mathematics 11; Chemistry 31 or consent of instructor. Second semester. Professor Snellgrove.

43. Organic Chemistry. Structure, properties, and reactions of organic chemical compounds. Special emphasis is placed upon the effect of structure on reactivity. Topics include spectral properties, conformational analysis, reaction mechanisms, modern synthetic methods, and biochemical applications. Laboratory work emphasizes methods of separation and purification, instrumental analysis, multistep syntheses, kinetic determinations, and organic qualitative analysis. Three to four hours of lecture and discussion and four hours of laboratory per week.

Requisite: Chemistry 31 or 31s. First semester. Professors Silver and Whitney.

44. Organic Chemistry. A continuation of Chemistry 43.

Requisite: A grade of C or better in Chemistry 43, or permission of the instructor. Second semester. Professors Silver and Whitney.

47. Modern Physical Chemistry. Elementary quantum mechanics and statistical thermodynamics of atomic and molecular systems, modern chemical kinetics. Topics include wave properties of matter, atomic structure, molecules and the chemical bond, mechanics of atoms and molecules in crystals, gases and solutions giving rise to the observed phenomena of thermodynamics, kinetic theory of gases, and chemical reaction rate theory. The laboratory includes the quantitative study of the spectra of atoms and molecules, of electrical and magnetic properties of inorganic and organic compounds, and of the kinetics of chemical reactions. Three hours of lecture and discussion, four hours of laboratory per week.

Requisite: Chemistry 31, Physics 14, and Mathematics 12. First semester. Professors Offenhartz and Kittelberger.

48. Modern Physical Chemistry. A continuation of Chemistry 47.

Requisite: Chemistry 47. Second semester. Professor Offenhartz.

61s. Structure and Mechanism. By focusing on a limited number of current concepts, the student will examine in depth fundamental problems of structure and reactivity common to inorganic, organic, physical and biological chemistry. Laboratory work will emphasize the role of modern instrumental techniques in the elucidation of structure and reaction mechanism. Two lecture periods per week plus laboratory.

Requisite: Chemistry 47. Elective for Seniors with consent of the instructor. Second semester. Professor Kittelberger.

77, D77. Honors Course.

Elective for Senior honors candidates, and for others with the consent of the Department. First semester. The Department.

78, D78. Honors Course.
Elective for Senior honors candidates, and for others with the consent of the Department. Second semester. The Department.

97, H97. Special Topics. A full or half course.
First semester. Consent of the Department is required. The Department.

98, H98. Special Topics. A full or half course.
Second semester. Consent of the Department is required. The Department.

CLASSICS

Professor J. Moore (Chairman); Associate Professor Marshall*; Assistant Professors Flory and Lebeck.

Major Program. All courses offered by the Department may be counted toward the major except those numbered 1, 1s, and 3; but of Greek 11 or 12 only one may be counted, and only then if both have been elected. Latin 15–16 will normally be introductory to higher courses in Latin, and Greek 15–16 will serve the same function in Greek. A major may be entirely in Greek or entirely in Latin and will then consist of eight semester courses, two of which may be in related fields. A major in Classics will consist of eight semester courses in the Classics, which may be divided in any proportion between Greek and Latin, except that no fewer than two may be taken in either language. Every *rite* student majoring in the Classics Department, whether in Classics, Greek, or Latin, will write a comprehensive examination in the spring of his senior year. This examination will in general resemble the honors examination described below, except that of course there will be no questions specifically on the candidate's honors work.

Honors Program. Honors may be awarded to those candidates who major in Greek or in Latin or in Classics and who take eight semester courses in the Department. Every honors candidate must include in his program those courses numbered 41, 42, 77 and 78 in either Greek or Latin. He must submit a long essay (6000–7000 words) on some topic connected with his honors work and approved by the Department. He must have read extensively in Greek or Latin literature or both. He must also read independently, i.e., not as a part of the work in a course, approximately 50 pages of some Greek or Latin text selected with the approval of the Department. In the second semester of his senior year he will be given a written examination covering: (a) his honors work; (b) his reading in the classical literatures. The emphasis

* On leave 1969–70.

in this examination will be on the literary and historical interpretation of major authors; there will be considerable latitude of choice among various optional questions. The award of honors will be determined by the quality of the candidate's course work, of his essay, and of his performance in the general examination.

The Department will cooperate with other departments in giving combined majors with honors.

Distribution Sequences. The following courses may be offered in satisfaction of the distribution requirement: Latin 15, 16, 28, 41, 42; Greek 12 if Greek 11 has also been elected, and *vice versa;* Greek 15, 16, 41, 42; Classics 23, 24.

The statement of requisites given below is intended only to indicate the degree of preparation necessary for each course, and exceptions will be made in special cases.

For students beginning the study of Greek the following sequences of courses are normal: Either 1, 12, 11, or 1s, 11, 12.

Classics

23. Classical Civilization. A study of the civilization of Greece from Homer to Alexander and its contribution to the civilization of the West. Readings from Greek literature will be included among the materials of the course. No knowledge of the ancient languages is required. Three hours of classroom work per week.

Elective for Sophomores. First semester. Professor Moore.

24. Classical Civilization. A study of Roman civilization and its contribution to the civilization of the West. Readings from Latin literature will be included among the materials of the course. No knowledge of the ancient languages is required. Three hours of classroom work per week.

Elective for Sophomores. Second Semester. Omitted 1969–70. To be offered 1970–71.

36. Ancient and Modern Literature (Colloquium). The readings are chosen to illustrate some of the resources of the literary imagination and something of the variety of human concerns which writers have entrusted to books.

The class, which if necessary will be divided into two sections, will meet with both instructors for discussion once a week for two hours. Perhaps once a month, and at the beginning of the course more frequently, a student will be expected to submit a journal or commonplace book in which he has recorded a critical appraisal of his reading together with other observations.

Limited to thirty students. Elective for Juniors with the consent of the instructors. (Not available for students who have elected Classics 25s in 1968–69.) Second semester. Professors J. Moore and Epstein.

Greek

1. Introduction to the Greek Language. Attic Greek. Four hours of classroom work per week. This course is normally followed by Greek 12.

Elective for Freshmen. First semester. Professor Flory.

1s. Introduction to the Greek Language. Homeric Greek. Four hours of classroom work per week. This course is normally followed by Greek 11.

Elective for Freshmen with the consent of the instructor. Second semester. Professor Lebeck.

11. The Iliad. Four hours of classroom work per week.

Requisite: Greek 1s or 12. Elective for Freshmen. First semester. Professor Lebeck.

12. Plato's Apology. Four hours of classroom work per week.

Requisite: Greek 1 or 11. Elective for Freshmen. Second semester. Professor Flory.

15. Greek Tragedy. One or two tragedies will be read. Three one-hour class meetings per week.

Requisite: Greek 12 or its equivalent. Elective for Freshmen. First semester. Omitted 1969–70.

16. Readings from the Odyssey and from the Lyric Poets. Three one-hour class meetings per week.

Requisite: Greek 15 or its equivalent. Elective for Freshmen. Second semester. Professor Lebeck.

H21s. Greek Prose Composition and Style. This course is designed to strengthen and refine the student's mastery of the Greek language. There will be two principal types of exercise, *viz.:* (a) translation of English passages into Greek and original composition in Greek; and (b) close scrutiny of selected passages of classic Greek prose. One hour of classroom work per week. A half course.

Elective for Sophomores. Second semester. Offered in alternate years. Omitted 1969–70.

41, 42. Advanced Readings in Greek Literature. The authors read in these courses vary from year to year, the selection being made according to the needs of the students; but as a general practice Greek 41 will be devoted in alternate years to Greek tragedy and to Plato. In 1969–70 Plato will be read in Greek 41, and Herodotus and Thucydides in Greek 42. Two hours of classroom work per week.

Prerequisite: Greek 15 or 16. Seminar course elective for Juniors. First and second semesters. Professor Lebeck (first semester); Professor Flory (second semester).

77, D78. Senior Honors Course. Greek 78 is a double course.
First and second semesters.

97, 98. Special Topics.
First and second semesters. Members of the Department.

Latin

3. Intermediate Course. Review of Latin grammar; selections from Latin prose and poetry. Four one-hour class meetings per week.

Requisite: Latin 1s, or two or three entrance units in Latin. Elective for Freshmen. First semester. Professor Lebeck.

15. Catullus. Attention will be given to Catullus as a literary artist and interpreter of the society of the late Republic. Three one-hour class meetings per week.

Elective for Freshmen. First semester. Professor Moore.

16. Virgil's Eclogues and Horace's Odes. Three one-hour class meetings per week.

Requisite: Latin 15, or four entrance units in Latin. Elective for Freshmen. Second semester. Professor Lebeck.

H21s. Latin Prose Composition and Style. A course designed to strengthen and refine the student's mastery of the Latin language. There will be two principal types of exercise, *viz.*: (a) translation of English passages into Latin and composition in Latin; and (b) close scrutiny of selected passages of classic Latin prose. One hour of classroom work per week. A half course.

Elective for Sophomores. Offered in alternate years. Second semester. Professor Moore.

H27. Latin Poetry: Lyric and Pastoral. Intended for students of literature who wish to acquire some knowledge of the influence of Latin poetry on the English literary tradition. Poems of Catullus, Horace, and Virgil will be read and interpreted from a literary point of view, and attention will be paid to similar poems in English. Students must have some knowledge of Latin and some familiarity with poetry. Two hours of classroom work per week. A half course.

Elective for Sophomores with the consent of the instructor. Limited to fifteen students. First semester. Professor Moore.

28. Virgil's Aeneid. At least three books will be read in Latin, and the whole work will be examined in translation. Three hours of classroom work per week, with one additional hour for students needing more help in the language.

Requisite: Latin 3 or the consent of the instructor. Elective for Freshmen. Second semester. Professor Flory.

41, 42. Advanced Readings in Latin Literature. The authors read in these courses vary from year to year, the selection being made according to the interests and needs of the students. Two hours of classroom work per week. Seminar course.

Requisite: Latin 15 or 16 or the consent of the instructor. Elective for Juniors. First and second semesters. In 1969–70 the offerings will be: first semester, Lucretius (Professor Flory); second semester, Virgil's *Aeneid* (Professor Moore).

77, D78. Senior Honors Course. Latin 78 is a double course.

First and second semesters.

97, 98. Special Topics.

First and second semesters. The Department.

Colloquia. See page 158.

DRAMATIC ARTS

Professors Boughton (Chairman), McGoun and Rogers; Assistant Professor Bierman.

Major Program. Rite majors must complete Dramatic Arts 11, 21, 22, 31, 32, 51, 52 and must either repeat 51 or 52 or elect one of the following courses: Dramatic Arts 42, English 31, 32, 70, 72; Fine Arts 11, 15; French 27, 28, 35; German H34; Spanish 45; Theatre 311a, 342a, 342b (Smith). *Honors Program.* Honors candidates majoring in Dramatic Arts must complete Dramatic Arts 11, 21, 22, 31, 32, 77, 78 and either 51 or 52. Honors projects may be developed in consultation with members of the Department.

Distribution Sequences. The two-course sequence will be Dramatic Arts 11 (or 11s) and either Dramatic Arts 21 or 22. The three-course sequence will be Dramatic Arts 11 (or 11s) and either Dramatic Arts 21–22 or Dramatic Arts 31–32.

11. Introduction to the Theater. A consideration of the materials of creative expression in drama; an appreciation of the playwright's work and how his script is brought to fruition in production. Four hours of classroom work per week.

Elective for Freshmen. First semester. The Department.

11s. Introduction to the Theater. Same as Dramatic Arts 11.

Elective for Freshmen. Second semester. Omitted 1969–70. The Department.

21. Backgrounds of the Modern Drama. The origins and development of the drama from the Greeks to the 19th century. Three hours of classroom work per week.

Requisite: Dramatic Arts 11 or 11s. Elective for Sophomores. First semester. Professor Bierman.

22. Modern Drama. Nineteenth century to the present. Three hours of classroom work per week.

Requisite: Dramatic Arts 11 or 11s. Elective for Freshmen. Second semester. Professor Bierman.

31. Principles of Dramatic Production. A study of directing, acting, scene design and stage lighting considered as instruments of dramatic interpretation. Four hours of classroom work per week.

Requisite: Dramatic Arts 11 or 11s. Elective for Sophomores. First semester. Professors Boughton, McGoun and Rogers.

32. Principles of Dramatic Production. Continuation of Dramatic Arts 31. Four hours of classroom work per week.

Requisite: Dramatic Arts 31. Elective for Sophomores. Second semester. Professors Boughton, McGoun and Rogers.

42. Art of the Film. History of the development of film art by viewing and analysis of significant films from the beginning to the present day, with emphasis on the development of film syntax and the forming of a critical vocabulary. Approximately four hours of classroom work per week: two in film showings and two in a lecture-discussion period.

Elective for Sophomores. Second semester. Professor Bierman.

51. Advanced Study. Advanced work in one of the following fields of dramatic arts: directing, scene design, stage lighting, dramatic literature. Classroom meetings, reports and conferences, projects.

Elective for students who have completed a three-course sequence in dramatic arts. This course, and/or Dramatic Arts 52 may be repeated with the consent of the Department. First semester. Professor Bierman.

52. Advanced Study. Continuation of Dramatic Arts 51.

Elective for students who have completed a three-course sequence in dramatic arts. Second semester. The Department.

77. Conference Course. Conference course for students majoring in dramatic arts. Selected topics of study.

Required of candidates for honors. Elective for Seniors with the consent of the Department. First semester. The Department.

78. Conference Course. Continuation of Dramatic Arts 77.

Required of candidates for honors. Elective for Seniors with the consent of the Department. Second semester. The Department.

97, H97. Special Topics. Independent Reading Course. Full or half course. Approval of the department chairman is required. First semester.

98, H98. Special Topics. Independent Reading Course. Full or half course. Approval of the department chairman is required. Second semester.

ECONOMICS

Professors Aitken*, Collery, Kohler, Nelson (Chairman) and Warne* and Visiting Professor McCartney; Associate Professors Beals and Mead; Assistant Professors Chalmers and Nicholson.

Major Program. All students majoring in economics must take Economics 11, 13, 14, 45 (or other preparation in statistics with the consent of the Department), and Mathematics 11. In addition, *rite* students must take Economics 73, 74, and at least one other course in economics, while honor students must take Economics 77, 78, and at least one other course in economics. (These requirements apply to the Class of 1971 and subsequent classes. The class of 1970 may substitute Economics 24, The American Economy, for Economics 14, The Theory of Price.)

Students intending to proceed with graduate study in economics are strongly advised to take Mathematics 12.

Each candidate for a degree in economics will have to pass a comprehensive examination in his senior year. The examination will be given at the end of the first semester. The student will also be examined in May on the content of his thesis.

Distribution Sequences. A two-course distribution sequence in economics will consist of Economics 11 and any other course in economics. A three-course distribution sequence will consist of Economics 11 plus two other courses in economics.

Unless otherwise specified, all courses are open to freshmen.

11. An Introduction to Economics. A study of the central functions and problems of an economic system, of the principles and practices of our economy, and of other forms of economic organization and control. One lecture and three hours of discussion each week.

Requisite for all other courses in economics. First semester. Professor Kohler (Course Chairman).

11s. An Introduction to Economics. Same description as above.

Second semester. Professor Kohler (Course Chairman).

13. Money, Banking, and National Income. A study of money and finance and their relation to the functioning of an economic system. An introduction

* On leave 1969–70.

to the theory of income determination with an indication of the role that money and finance play in the determination of employment, production, and prices. Two lectures and two hours of discussion each week.

Requisites: Economics 11 and Mathematics 11 or equivalent. First semester. Professor Collery.

14. The Theory of Price. An introduction to the theory of utility and demand; the nature of cost and the production function; diminishing returns and short-run cost curves; returns to scale and long-run cost curves; competitive pricing; the pricing of productive services; the theory of monopoly; the theory of oligopoly; cartels and unions; the distribution of income; general equilibrium. Three meetings per week. Formerly Economics 42.

Requisites: Economics 11 and Mathematics 11 or equivalent. Second semester. Professor Nicholson.

21. Labor Economics. A survey of the position of labor in our modern economy and of the development and status of labor legislation and social security measures. One two-hour seminar each week.

Requisite: Economics 11. First semester. Professor McCartney.

24. The American Economy. An examination of the structure and operation of the economic system of the United States, with particular emphasis upon the different types of markets and industrial structures, the role and behavior of the price mechanism, the evolution of public policies, and selected current economic issues. Two lectures and two hours of discussion each week. Formerly Economics 12.

Requisite: Economics 11. Second semester. Professor Nelson.

25. Monopoly Regulation. The theory of monopoly pricing and price discrimination; objectives and methods of public control of prices, profits, and service by public utilities and transportation agencies. Three hours of classroom work per week. Formerly Economics 33.

Requisite: Economics 11. First semester. Professor Nelson.

27. European Economic History. An examination of the economic development of Europe from feudal times to the present day with emphasis on the evolution of industrialism. Three hours of classroom work per week.

Requisite: Economics 11. First semester. Omitted 1969–70. To be offered 1970–71. Professor Aitken.

28. American Economic History. A study of the economic development of the United States from colonial times to the present day. Three hours of classroom work per week.

Requisite: Economics 11. Second semester. Omitted 1969–70. To be offered 1970–71. Professor Aitken.

31. Public Finance. A study of taxing, spending and debt policies of government units with emphasis on the implications of these policies for income distribution and the allocation of resources. Three class hours per week.

Requisite: Economics 11. First semester. Professor Chalmers.

32. Comparative Economic History. Comparative analysis of the historical development of a number of national economies, with particular reference to changes in economic structure and productivity. One two-hour seminar each week.

Requisites: Economics 11 and either Economics 27 or 28. Limited to 15 students. Second semester. Omitted 1969–70. Professor Aitken.

34. Stabilization Policy. A study of macroeconomics in the context of the United States' economy. The approach will take advantage of the student's introduction to the theory of income determination obtained in Economics 13 to construct a model which approximates many of the important behavioral and institutional characteristics of our economy. This model will then be used as an instrument for the analysis of both fiscal and monetary policy. Two lectures and two hours of discussion per week.

Requisite: Economics 13. Second semester. Professor Chalmers.

35. International Trade and Payments. A study of the economic relationships among countries with special emphasis on theoretical analysis: the balance of payments and the foreign exchange market including price and income effects in the balance of payments adjustment process; the theory of international trade; policy problems of trade restrictions, external vs. internal balance and international monetary cooperation. Three class hours per week.

Requisites: Economics 13, or Economics 11 and consent of the instructor. First semester. Professor Mead.

36. Economic Development. An examination into the problems of economic growth with particular reference to less developed countries; the interaction of economic and noneconomic factors, population growth and the labor force, capital requirements, market development, foreign investment and aid, and the role of government. Case materials from selected Asian, African, and Latin American countries will be used. Three class hours per week.

Requisite: Economics 11. Second semester. Professor Mead.

38. The Economics of Socialism. A study of the theory and practice of planned economies with particular reference to the Soviet Union. Three class hours per week.

Requisite: Economics 11. Second semester. Professor Kohler.

45. Economic Statistics. A study of the analysis of quantitative data, with special emphasis on the application of statistical methods to economic problems. Three class hours per week.

Requisites: Economics 11 and Mathematics 11. First semester. Professor Beals.

46. Introduction to Mathematical Economics and Econometrics. An introduction to some areas of mathematical economics, and to problems of econometric model construction and estimation. Emphasis is placed on the economic content of the methods. Three class hours per week.

Requisite: Economics 45. Second semester. Professor Nicholson.

73. Senior Rite Seminar. Required of senior *rite* majors in economics. First semester.

D74. Senior Rite Seminar. Preparation of a thesis on a topic approved by the Department. A double course.

Required of all seniors majoring in economics who are not candidates for Honors. Second semester.

77. Senior Honors Seminar.

Required of all seniors majoring in economics who are candidates for Honors. First semester.

D78. Senior Honors Seminar. Preparation of a thesis on a topic approved by the Department. A double course.

Required of all seniors majoring in economics who are candidates for Honors. Second semester.

97, H97. Special Topics. Independent Reading Course. A full course or a half course. First semester.

98, H98. Special Topics. Independent Reading Course. A full course or a half course. Second semester.

Education. See page 109.

ENGLISH

Professors Baird*, Cody*, Craig, DeMott, Heath (Chairman), Marx*, McKeon and Visiting Lecturer Mrs. Olsen; Associate Professors Cameron, Guttmann, Pritchard, and Townsend; Assistant Professors Brinton, Chickering*, Sofield and Zemelman; Mr. Peterson.

Major Program. The student majoring in English must elect English 11 or 11s, and English 25 (at least once, preferably before the senior year) and six other semester courses offered or approved by the English Department. He must also pass a comprehensive examination in English that is given in January of the senior year. He should plan his program carefully in consultation with his departmental advisor, taking into account both his own particular interests and needs and the comprehensive examination requirements.

* On leave 1969–70.

Honors Program. Exactly as above, except that candidates for honors must also elect, in their senior year, English 77–78.

Distribution Sequences. The student may satisfy the requirement for a two-course sequence by electing English 11 or English 11s and any other course in the Department (except English 21 or English 22). Any third course in the Department (except English 21 or English 22) may be used to create a three-course sequence. Other sequences may be proposed but require the approval of a member of the Department.

N.B. The English Department does not grant advanced placement on the basis of College Entrance Examination Board scores. The character of the departmental offering is not such as to make advanced placement a meaningful idea. English 11 and English 11s are conceived as courses of interest to students at any level of preparation in the study of English.

Unless otherwise specified, all courses are open to Freshmen.

11. Introduction to English. Some plays by Shakespeare, and various works by other writers, will be read. Frequent composition. Three class hours per week.

Elective for Freshmen. First semester. Professor Sofield (Chairman), and members of the Department.

11s. Introduction to English. The same course as English 11, but with different readings from Shakespeare and others. Frequent composition. Three class hours per week.

Elective for Freshmen. Second semester. Professor Townsend (Chairman), and members of the Department.

21. Advanced Composition. A course in disciplined writing, both verse and prose. Students are expected to work independently without specific assignments. Class discussions of manuscripts and frequent conferences with the instructor. One two-hour meeting per week.

Elective for Sophomores with the consent of the instructor. Limited to fifteen students. First semester. Mrs. Olsen.

22. Advanced Composition. A continuation of English 21. One two-hour meeting per week.

Elective for Sophomores with the consent of the instructor. Limited to fifteen students. Second semester. Mrs. Olsen.

23. Composition: The Resources and Limits of General Discourse. An attempt to put together the language of specialized knowledge with the language of general concern. The course will explore, by practice, the creation of a style in which the student can connect what he specially knows as a major with what he generally knows and cares about as a man. Frequently assigned short papers will be the main work and supply the main

material (class discussions will be based on mimeographed samples of assigned papers). A final longer paper will move from the consideration of a 20th century autobiographical document (to be selected in conference with the instructor) to an assessment of the student's own intellectual and social life. Two meetings per week.

Elective for Juniors. Limited to twenty students. First semester. Professor Craig.

25. Discussions of Literature. The course is comprised of small discussion sections, each devoted to a single topic. Topics vary from section to section and from year to year. The common aim is, by taking up and criticizing a single topic, to refine the student's awareness of what constitutes the study of literature.

Elective for Freshmen. No student will be permitted to repeat English 25 more than once. Each section limited to fifteen, except as noted. Students should elect a particular section of the course, listing alternates if desired. Admission will be determined by the instructor of the section. Requisite: English 11 or 11s, or the consent of the instructor. The course may be repeated for credit. English majors are required to take at least one section, preferably before their senior year.

1. SCIENCE AND THE NINETEENTH CENTURY ART OF PROSE. Writings on science studied as imaginative prose; scientific materials in literary works and in some specifically anti-materialistic works. Reading will include J. S. Mill, Darwin, T. H. Huxley, George Eliot, H. P. Blavatsky and others. Three hours of classroom work per week. Professor Zemelman.

3. LITERATURE OF POVERTY, OPPRESSION, REVOLUTION AND THE STRUGGLE FOR FREEDOM. Works both famous and little known will be read, with emphasis on fiction, poetry, and autobiography of the past century. One two-hour meeting per week. Mrs. Olsen.

5. PRACTICAL CRITICISM. Studies of various approaches to literature, and development of student's critical skills. One two-hour meeting per week. Professor Brinton.

7. THE RISE OF LITERACY. The rise of literacy, and the creation and exploitation of a mass audience. Readings will include works by Fielding, Wordsworth, Dickens, and major essayists of the eighteenth and nineteenth centuries. Two meetings a week. Professor Heath.

25s. Discussions of Literature. Same course as English 25.

Requisite: English 11 or 11s, or the consent of the instructor. Elective for Freshmen. Second semester. The course may be repeated for credit.

2. THE POETRY OF LOVE AND PRAISE. Readings in Renaissance Literature, 1580–1640, in part in relation to social history and literary theory.

The poets read are Sidney, Greville, Donne, Jonson, and Carew. One two-hour meeting per week. Professor Sofield.

4. AUTOBIOGRAPHY AND THE NOVEL. A study of some 19th and early 20th century journals and autobiographies (e.g., John Stuart Mill, *Autobiography; The Later Years of Thomas Hardy*, ed. Florence Hardy) in juxtaposition with some novels of the same period, not all of them necessarily by the selected autobiographers (e.g., George Eliot, *Daniel Deronda;* Thomas Hardy, *Jude The Obscure*). Individual reports on minor novels, journals, autobiographies. The purpose of the course is to explore the novelistic view of society, what it both revealed to and concealed from a growing reading public, as it developed in the late 19th century. One two-hour meeting per week. Professor Craig.

6. READING AND CRITICIZING POEMS. A number of poems, mostly lyrics, will be read and discussed in the light of how various readers have approached them. The aim is to develop one's appreciation of the poems; and to consider of what use are such words in the critic's vocabulary as tone, voice, rhythm, sentimental, dramatic, deeply moving, and others. Two meetings per week. Professor Pritchard.

8. THE STRUGGLE TO WRITE. The creative process as revealed in the diaries, workbooks, letters, and lives of writers including Camus, Chekhov, Conrad, Fitzgerald, Gide, Hardy and James. One two-hour meeting per week. Mrs. Olsen.

10. THE EIGHTEENTH CENTURY NOVEL. Readings in Defoe, Swift, Richardson, Fielding, Johnson, Sterne, Smollett and others. One two hour meeting per week.

27. Readings in Medieval Literature. Readings vary yearly. In 1970–71 the course will have three one-month segments: the study of Anglo-Saxon for reading knowledge; selected Anglo-Saxon epic poetry in the original and in translation; medieval tragedy as a literary genre, including such works as *Beowulf*, *Njal's Saga*, and Malory's *Death of King Arthur*. Three class hours per week.

Elective for Freshmen. First semester. Professor Chickering. Omitted 1969–70.

Latin Poetry: Lyric and Pastoral. Same course as Latin H27. Intended for students of literature who wish to acquire some knowledge of the influence of Latin poetry on the English literary tradition. Students must have some knowledge of Latin and some familiarity with poetry. Two hours of classroom work per week. A half course.

Elective for Sophomores with the consent of the instructor. Limited to fifteen students. First semester. Professors Moore and Flory.

28. Chaucer. In 1970–71 selected *Canterbury Tales* will be read in the original. Other English authors, whose writing is comparable to Chaucer's,

such as Fielding, Spenser, and Pope, will also be read. Three class hours per week.

Elective for Freshmen. Second semester. Professor Chickering. Omitted 1969–70. To be offered 1970–71.

31. Shakespeare. Readings and discussion. Three hours per week.

Elective for Sophomores. First semester. Professor DeMott.

32. Shakespeare. Readings and discussion.

Requisite: English 31. Elective for sophomores. Limited to twenty students. One two-hour meeting per week. Second semester. Professor DeMott.

33. Sixteenth Century Literature. Poetry and doctrine; mythology and style; revenge tragedy; comedy; Wyatt, Spenser, Sidney, Ralegh, Kyd, Marlowe, Jonson; some Renaissance humanist writings in translation. Three hours of classroom work per week.

Elective for Sophomores (and Freshmen with permission of the instructor). First semester. Professor Cody. Omitted 1969–70.

34f. Seventeenth Century Literature. The major authors of poetry, prose, and drama, including Donne, Jonson, Bacon, Herbert, Milton, Hobbes, and Marvell. Three hours of classroom work per week.

Elective for Sophomores (and Freshmen with permission of the instructor). First semester. Professor Sofield.

36. Literature and Society, 1660—1740. A study of the prose, poetry and drama of the Restoration and earlier eighteenth century. Principal authors will include Dryden, Swift and Pope; attention will be paid to lesser figures. Three hours of classroom work per week.

Elective for Sophomores (and Freshmen with permission of the instructor). Second semester. Professor Heath.

43s. Readings in Romantic Poetry. A study of selected major poets from Blake to Byron. Three hours of classroom work per week.

Elective for Sophomores (and Freshmen with the consent of the instructor). Second semester. Professor Townsend.

47. The Nineteenth Century English Novel. A course of readings in representative English novels, mainly of the nineteenth century. The books read vary from year to year from among such writers as the following: Scott, Jane Austen, the Brontës, Thackeray, Dickens, Trollope, George Eliot, Hardy, James, Conrad, and Lawrence.

Elective for Sophomores (and Freshmen with permission of the instructor). First semester. Professor Cameron.

50. Twentieth Century Continental Fiction. Novels by Kafka, Mann, Gide, Sartre, Camus, Pasternak, Genet and Grass are read in this course. Three hours per week.

Elective for Sophomores. Second semester. Professor DeMott.

52. Modern and Contemporary Poetry. Readings and discussion.
Elective for Sophomores. Second semester. Omitted in 1969–70.

53s. Modern Poetry. A study of the poetry and relevant prose writings of Hardy, Yeats, Pound, the Georgians and Imagists, D. H. Lawrence, Frost and early Eliot. Three hours of classroom work per week.
Elective for Sophomores. Second semester. Professor Pritchard.

54. Readings in Modern Fiction. A study of some novels written in the twentieth century and a consideration of the novelist's position in modern society. Three hours of classroom work per week.
Elective for Sophomores. Second semester. Professor Craig.

56. Literary History of the Great War 1914–1918. The limits of literature studied in relation to the event of war: memoir, journalism, biography, history, fiction, poetry. Some reference to writings on other wars, e.g. Tolstoy, Orwell, Edmund Wilson. One two-hour seminar per week.
Elective for Juniors with consent of the instructor. Limited to fifteen students. Second semester. Professor Cody. Omitted 1969–70.

60f. Readings in American Literature. An intensive study of one or more major American writers; the particular writers will vary from year to year. Prerequisite: at least two semester courses in American literature. In some instances a specific course may be required as an additional prerequisite. One two-hour meeting per week.
Seminar course limited to fifteen students, admission with consent of the instructor. Elective for Juniors. First semester. Professor Guttmann.

61. American Literature I. A survey of American literature from the seventeenth century to the early nineteenth century with emphasis on the interplay between the general culture and the work of major writers, including Taylor, Edwards, Franklin, Poe, Emerson, Thoreau, Whitman, and Hawthorne. Three hours of classroom work per week.
Elective for Sophomores. Students other than English or American Studies majors require permission of the instructor. First semester. Mr. Peterson.

62. American Literature II. A continuation of English 61 to the early twentieth century, including the work of Melville, Dickinson, Mark Twain, James, Crane, and Dreiser. Three hours of classroom work per week.
Elective for Sophomores. Second semester. Professor Guttmann.

63. American Literature III. A continuation of English 62 to the present, including the work of Frost, Eliot, Fitzgerald, Hemingway, Stevens, and Faulkner. Three hours of classroom work per week.
Requisite: English 62. Elective for Sophomores. First semester. Professor Pritchard.

64f. Contemporary American Writing. Topics in 1969 include "new journalism," participation theater, the anthologies war, and books by Barth,

Bellow, Mailer, Malcolm X, Nabokov, Pynchon and others of recent reputation.

Elective for Sophomores. One two-hour meeting per week. Limited to twenty students. First semester. Professor DeMott.

70. Tragedy. Plays by Sophocles, Shakespeare, Ibsen, Hofmannsthal, Camus, Sartre, Giraudoux, and Anouilh are read in this course. Three class meetings a week.

Elective for Sophomores (and Freshmen with the consent of the instructor). Second semester. Omitted 1969–70. Professor DeMott.

74. Topics in the Novel. This year novels by Flaubert, Dickens, Dostoevsky, Tolstoy, James, Conrad, Proust, and some recent writers will be read in the course. Attention will be paid to the limits of "character" as a novelist's means of expression.

Elective for Sophomores (and Freshmen with permission of the instructor). Second semester. Professor Cameron.

75s. English and Education. A consideration of the place of English in general culture, and in the curricula of secondary schools and colleges. Literary and pedagogical works will be read. One two-hour seminar a week.

Elective for Juniors. Limited to fifteen students. Second semester. Professor Heath.

76f. An Introduction to Literary Studies. A study of the criticism and, where relevant, the poetry of Johnson, Coleridge, Arnold, Eliot, Leavis, Frye, and others. Three hours of classroom work per week.

Elective for Sophomores. First semester. Professor Townsend.

77. Senior Tutorial. Weekly meetings with a tutor assigned by the Department. Open to senior English majors whose college average is 9 or above. First semester. The Department.

78. Honors Tutorial. Weekly meetings with a tutor assigned by the Department. Requisite: English 77. Second semester. The Department.

97. Special Topics. Independent Reading Course.
First semester.

98. Special Topics. Independent Reading Course.
Second semester.

FINE ARTS

Professors Rogers, Schmalz‡ and Trapp (Chairman); Visiting Lecturer Fairfield Porter; Assistant Professor Westfall*; Mr. Roberson; Visiting Instructor Batchelder.

* On leave 1969–70.
‡ On leave second semester 1969–70.

Major Program. A major in fine arts consists of eight full courses in fine arts, one of which must be taken in studio work (see below), and a comprehensive examination. Additional work in studio beyond the 15 level may also count toward fulfillment of the major requirements. A *rite* major may by departmental permission elect a 77–78 program of individual work as a senior. Depending on the individual student's objectives, a limited number of courses in other departments may, with departmental approval, be accepted in partial fulfillment of the major requirement.

Honors Program. Honors in fine arts shall consist of eight full courses in fine arts, one of which must be taken in studio work (see below), plus Fine Arts 77–78, and a comprehensive examination. Normally, as a minimum, either Fine Arts 47 or Fine Arts 48 will be included in the student's elections within the Department. Note: A certain amount of work at the neighboring institutions is acceptable, at the discretion of the Department, for fulfillment of the major program.

Distribution Sequences.

a. Two-course sequences: Fine Arts 11 or 11s plus one other course in art history; Fine Arts 15 plus one other course in studio.

b. Three-course sequences: Fine Arts 11 or 11s plus two other courses in art history; Fine Arts 15 plus two other courses in studio, one of which would normally be 23, 27, or 29.

11. Introduction to the History of Art. The development of the major arts from the earliest time to the present day, with a special emphasis on the manner in which they reflect the successive civilizations that produced them. Three hours per week.

Elective for Freshmen. First semester. Professor Schmalz.

11s. Introduction to the History of Art. Same description as Fine Arts 11. Three hours per week.

Elective for Freshmen. Second semester. Professor Trapp.

15. Introductory Studio and Basic Design. A series of student projects to introduce problems of description, organization and artistic expression. Design and line and form drawing in various mediums. Two two-hour class periods per week, plus outside assignments. No prior studio experience is required or special talent expected.

Elective for Freshmen. First semester. Limited to fifty students. Professor Rogers.

15s. Introductory Studio and Basic Design. Same course description as Fine Arts 15.

Elective for Freshmen. Second semester. Limited to fifty students. Professor Rogers.

22. Basic Design. A series of problems in design to introduce the ideas of color, form, structure, texture and line, and their creative uses. In order to understand the fundamental need for man to design and decorate, emphasis will be placed on the occurrence of those qualities in all human artifacts. The work will be in both two and three dimensions and a variety of materials will be used. Two two-hour class periods per week.

Elective for Sophomores and Freshmen. Limited to thirty students. Second semester. Omitted 1969–70.

23. Advanced Drawing. Problems in drawing designed to extend and develop the student's knowledge and skill in the techniques and uses of drawing. Both descriptive and expressive approaches will be used in leading toward a personal method and style in drawing. Correlations between classwork and master drawings will be shown to give the student a sense of his relation to tradition. Two two-hour class periods per week. This course may be repeated.

Requisite: Fine Arts 15, H17, or permission of the instructor. Elective for Sophomores. First semester. Omitted 1969–70.

25. Introductory Serigraphy. A series of problems designed to provide students with practice in the several basic techniques of silk screen printing, and to acquaint them with its varied possibilities for original creative expression. Contemporary idioms will be emphasized. Two two-hour studio periods per week, plus additional studio time.

Requisite: Fine Arts 15, 22, or consent of the instructor. Limited to fifteen students. Elective for Sophomores. First semester. Professor Schmalz.

26f. Watercolor. Elementary color theory and technique of water-color painting. One lecture and two two-hour studio periods per week.

Requisite: Fine Arts 15 or H17. First semester. Omitted 1969–70. Professor Rogers.

27. Visiting Artist's Studio. The general tone and character of the course will be determined by the visiting artist. The specific problems and their sequence will be established with the interests of both the visting artist and his individual students in view. Two afternoon meetings per week plus outside work.

Limited to thirty students with consent of the visiting artist. First semester. Mr. Fairfield Porter.

28. Visiting Artist's Studio. Same course description as Fine Arts 27.

Limited to thirty students with consent of the visiting artist. Second semester. Mr. Fairfield Porter.

29s. Photographic Vision and Design. An introduction to the camera as an artistic means based on a series of studio problems in light, motion, optical control, visual selectivity and photographic composition. Special

projects will be arranged for those students who have had prior experience in photography. Two afternoon meetings per week plus outside assignments.

Limited to twenty students with consent of the instructor. Second semester. Mr. Batchelder.

30. Ancient Arts. A comparative study of the emergence, development and diffusion of artistic styles in the East and the West from pre-historic times to the early Christian era. Three hours of classroom work per week.

Requisite: Fine Arts 11 or 11s, or permission of the instructor. Elective for Sophomores. Second semester. Omitted 1969–70. Professor Schmalz.

33. Renaissance Art. A selective examination of the form and content of European art from the early 15th to the end of the 16th centuries, with emphasis upon the major artists of Italy. Three hours of classroom work per week.

Requisite: Fine Arts 11 or 11s, or permission of the instructor. Elective for Sophomores. First semester. Professor Trapp.

34f. Baroque and Rococo Art. A study of major figures and movements in European art of the 17th and 18th centuries, including such masters as Rubens, Bernini, Rembrandt and Goya. Three hours of classroom work per week.

Requisite: Fine Arts 11 or 11s or permission of the instructor. Elective for Sophomores. First semester. Mr. Roberson.

37. The Origins of the Modern Movement. A selective examination of major figures and movements in the development of European painting from Neo-Classicism to Impressionism, with emphasis on problems in criticism. Three hours per week. Outside reading and written assignments.

Requisite: Fine Arts 11 or 11s, or permission of the instructor. Elective for Sophomores. First semester. Omitted 1969–70. Professor Trapp.

38. American Art. American architecture, sculpture and painting in America from the 17th century to the present day. Three hours of classroom work per week.

Elective for Sophomores. Second semester. Mr. Roberson.

39s. Modern Art. A selective examination of major figures and movements in the development of modern art from Post-Impressionism to the present. Three hours of classroom work per week.

Requisite: Fine Arts 11 or 11s or permission of the instructor. Elective for Sophomores. Second semester. Professor Trapp.

40. History of the City. An investigation of the development and historical importance of cities, especially from the Renaissance to the present day. The analytical technique and literature of art history will be used. Emphasis will be placed upon the forms of city plans and of urban architecture in their

relationship to cultural, historical, and environmental factors. Three hours of classroom work per week.

Requisite: Fine Arts 11 or 11s; or History 11 or 11s and permission of the instructor. Second semester. Omitted 1969–70. Professor Westfall.

43. The Heritage of African Art. The aim of this course is two-fold: (a) to determine and describe on a selective basis formal and cultural relationships between traditional African arts and the arts of the New World Blacks; and (b) to formulate feasible areas of artistic inquiry of value for Black Studies at Amherst College.

Elective for Freshmen, with the consent of the instructors. Limited to fifteen students. First semester. Professors Trapp, Schmalz, and visitors.

47. Problems in Criticism and Connoisseurship. A study of original works of art, chiefly from the college collections, intended to sharpen visual perception, establish critical principles and clarify verbal judgments. Emphasis will be placed on modern examples. Three hours of classroom work per week. With permission of the instructor, this course may be repeated.

Requisite: Fine Arts 11 or 11s plus one other course in art history, or permission of the instructor. Elective for Juniors. First semester. Mr. Roberson.

48. Topics in Art History. A critical examination of a variety of historical literature dealing with painting, sculpture and architecture. The chief aim of the course is to provide a deeper understanding of the methods, purpose and meaning of art history. Three hours of classroom work per week.

Requisite: Fine Arts 11 or 11s plus one other course in art history, or permission of the instructor. Elective for Juniors. Second semester. Mr. Roberson.

77, D77; 78, D78. Conference Course. Senior Honors. Preparation of an honors thesis or completion of a studio project.

The student shall with the consent of the Department elect to carry one semester of his honors work as a double course weighted in accordance with the demands of his particular project. Elective for Seniors with the consent of the Department. First and second semesters.

97, H97, 98, H98. Special Studies for Student Majoring in Fine Arts.

Full or half course. First and second semesters. The Department.

FRENCH

Professors Carre (Chairman), French and Giordanetti; Assistant Professors Cohen, Pini and Ryerson; Mrs. Grant and assistants.

Major Program. All *rite* majors must elect the equivalent of eight full courses including French 11 and 12, 8 or 14, 27 or 28. A maximum of two

half courses can be included for credit in the elections. (Advanced placement may be accepted as a substitute for French 11 and/or 12 and will be allowed one full course credit toward the major. French 1 and 3 will not count toward the major for *rite* candidates.)

Honors Program. All honors candidates must elect French 11 or 12 (Advanced Placement will be accepted as an equivalent), 8, 25s, 27, 28, 31, 77, 78 and one additional full course or two half courses. In certain cases of demonstrated proficiency French 8 may be waived. French 1, 3, 5 will not count toward the major for honors candidates. This course program may, in exceptional cases, be adjusted. The comprehensive examination, required of all majors, is given in the spring of the senior year. In addition, candidates for departmental honors must present a thesis and sustain an oral examination on the thesis. A reading list will be furnished to aid in preparation or the examination.

Course programs for a joint major in French and Spanish, or French and Italian are arranged in consultation with the instructors in those languages.

Distribution Sequences. French 11, 12, and 15 (15s) are recommended as basic courses for a two-course distribution sequence, either in combination with one another or with any other course offered by the Department. Other two or three-course sequences may be arranged in consultation with the Department.

1. Elementary Course. Grammar, pronunciation, oral practice. Three hours a week for explanation and demonstration, four hours a week in small sections and laboratory for oral practice.

Elective for Freshmen. First semester. Professor Carre and assistants.

3. Intermediate Course. Review of grammar and pronunciation; oral practice. Reading and analysis of literary texts. Three hours a week for explanation and demonstration, three hours a week in small sections and laboratory for drill in aural comprehension of the language.

Elective for Freshmen. First semester. Mrs. Grant and assistants.

3s. Intermediate Course. Same description as above.

Elective for Freshmen. Second semester.

5. Language and Literature. The purpose of the course is to bridge language competence and the critical appreciation of French literature in its original form. Training in fluent reading and in aural comprehension, practice in the fundamentals of oral and written expression. Reading of significant fiction, plays, and essays from the modern period. Three hours a week in class and three hours a week in small sections and laboratory for oral and aural drill. Conducted in French.

Elective for Freshmen. First semester. Professors Cohen, Pini and Ryerson and assistants.

5s. **Language and Literature.** Same description as above.

Elective for Freshmen. Second semester. Professors Carre and Cohen and assistants.

8. **Composition and Conversation.** A review of French grammar with practice in set translation and free composition; oral reports and discussion on selected topics. Three hours a week of composition and two of oral practice.

Requisite: Satisfaction of the language requirement in French. Elective for Freshmen. Second semester. Professor Pini.

11. **Introduction to French Literature through the Seventeenth Century.** Reading and discussion of selected texts from *La Chanson de Roland* through the Age of Classicism. Conducted in French. Three hours of classroom work a week.

Requisite: Satisfaction of the language requirement in French. Elective for Freshmen. First semester. Professor Giordanetti.

12. **Introduction to French Literature since the Seventeenth Century.** Reading and discussion of selected texts. Concentration will be on the eighteenth and nineteenth centuries with, as time permits, some introductory materials from the twentieth century. Conducted in French. Three hours of classroom work a week.

Requisite: Satisfaction of the language requirement in French. Elective for Freshmen. Second semester. Professor Giordanetti.

13. **Major French Novelists.** Choice of novelists and works may vary each year. In 1969–70 reading, analysis and discussion of novels of Balzac and Stendhal. Conducted in French. Three hours of classroom work a week.

Requisite: Satisfaction of the language requirement in French. Elective for Freshmen. First semester. Professor Cohen.

14. **Studies in French Stylistics.** A study of French literary styles. Practice in free composition and in translation of examples of a variety of styles. Textual analyses and oral reports on related topics. Three hours a week in class and two in small sections. Conducted in French.

Requisite: Satisfaction of the language requirement in French. One literature course or its equivalent is recommended, though not required, before taking French 14. Elective for Freshmen. Second semester. Omitted 1969–70.

15. **Introduction to Modern Literature.** An introduction to modern French literature with emphasis on the ways in which reality is perceived by representative poets, playwrights, and novelists of the twentieth century. Three hours of classroom work a week. Conducted in French.

Requisite: Satisfaction of the language requirement in French. Elective for Freshmen. First semester. Professor Ryerson.

15s. Introduction to Modern Literature. Same description as above. Elective for Freshmen. Second semester. Professor Pini.

25s. French Literature of the Renaissance. Readings in Rabelais, Montaigne and the poets of the sixteenth century. Conducted in French. Three hours of classroom work a week.

Requisite: An introductory course in French literature. Elective for Sophomores or Freshmen with the consent of the instructor. Second semester. Professor French.

27. French Classic Tragedy—Corneille and Racine. A detailed study of the history and theory of French classic drama, with an analysis of the principal tragedies of Corneille and Racine. The philosophies of Descartes and Pascal are studied as background for the tragic authors. Three hours of classroom work a week.

Requisite: An introductory course in French literature. Elective for Sophomores or Freshmen with the consent of the instructor. First semester. Omitted 1969–70.

28. French Classic Comedy—Molière. A detailed study of the principal comedies of Molière, and of the comic spirit as exemplified in La Fontaine and Boileau. Three hours of classroom work a week.

Requisite: An introductory course in French literature. Elective for Sophomores or Freshmen with the consent of the instructor. Second semester. Omitted 1969–70.

31. The Age of the Enlightenment. A study of the literature of the eighteenth century from the Regency to the Revolution, its relations to the intellectual, esthetic, and social changes of the Enlightenment, the development of new literary forms. Particular emphasis will be given to Voltaire, Rousseau, and Diderot. One three-hour meeting a week; discussion, oral reports, one term-paper on individual related topics.

Requisite: An introductory course in French literature. Elective for Sophomores or Freshmen with the consent of the instructor. First semester. Professor Giordanetti.

35. Tradition and Anti-Tradition in the Twentieth Century French Theater. An analysis of plays and dramatic theories: Claudel and Giraudoux as representatives of the tradition; Jarry, Artaud, Ionesco, and Beckett as makers of a new theater. Three hours of classroom work a week. Conducted in French.

Requisite: Satisfaction of the language requirement in French. Elective for Sophomores or Freshmen with the consent of the instructor. First semester. Professor Pini.

36. Aspects of the Twentieth Century Novel. Readings from Giono, Malraux, Sartre, Céline, and representatives of the *nouveau roman.* Conducted in French. Three hours of classroom work a week.

Requisite: An introductory course in French literature. Elective for Sophomores or Freshmen with the consent of the instructor. Second semester. Omitted 1969–70.

37. Camus and Sartre. Existentialism and *engagement*. Readings and discussion of the major works, literary and theoretical, of the two authors, concluding with an examination of the controversy that opposed Camus to Sartre and the *Temps Modernes* group on the nature of the artist's commitment to society. Three hours of classroom work a week. Conducted in French.

Requisite: Satisfaction of the language requirement in French. Elective for Sophomores or Freshmen with the consent of the instructor. First semester. Omitted in 1969–70. Professor Carre.

H38. Gide. Readings in the works of André Gide. One hour of classroom work a week. Conducted in French. A half course.

Requisite: Satisfaction of the language requirement in French. Elective for Sophomores or Freshmen with the consent of the instructor. Second semester. Omitted 1969–70. Professor Giordanetti.

40. Modern French Poetry. A study of the principal poetic movements of the nineteenth century and the first part of the twentieth century, with particular attention to the poetic practice of Baudelaire, Rimbaud, Mallarmé and Apollinaire. Three meetings a week. Conducted in French.

Requisite: Satisfaction of the language requirement in French. Elective for Freshmen. Second semester. Professor Carre.

41. Apollinaire and Modern Movements in Art and Literature. A study of Guillaume Apollinaire as poet, theoretician, spokesman and moving force of the new art in France during the first two decades of the twentieth century. An inquiry into the relationships of art and literature with particular attention to Cubism, Futurism, and Dadaism. Three hours of classroom work a week. Conducted in French.

Requisite: An introductory course in French literature. Elective for Sophomores or Freshmen with the consent of the instructor. First semester. Professor Carre.

42. Proust. An interpretive study of *A La Recherche du Temps Perdu* in its entirety, in the context of certain permanent Proustian themes: the subjection of the individual to habit and social ritual, the conflict of knowledge and innocence, and the relation between the imagination and reality. Three hours of classroom work a week. Conducted in French.

Requisite: Satisfaction of the language requirement in French. Elective for Sophomores or Freshmen with the consent of the instructor. Second semester. Professor Ryerson.

77. Conference Course for Seniors.

First semester. The Department.

D78. Conference Course for Seniors. A double course. Second semester. The Department.

97, H97. Special Topics. Independent Reading Course. Full or half course. Approval of the department chairman is required. First semester.

98, H98. Special Topics. Independent Reading Course. Full or half course. Approval of the department chairman is required. Second semester.

GEOLOGY

Professors Brophy, Foose (Chairman) and Wood; Assistant Professors Belt and Kuntz.

Major Program. Course requirements for majoring in geology generally include Geology 21, H23, 24, 35, 41, 42f, and 52. (Students with adequate background may be excused from Geology 11 and/or 12.) Majors should plan a program to include courses in mathematics, chemistry, physics and/or biology, depending upon their specific interests, preparation and abilities within the field of geology and related sciences.

Students contemplating a major in geology, or whose interests are directed towards geochemistry, geophysics or oceanography, should discuss their interests with the staff as early as possible, in order to elect a proper program of study.

Early in the second semester of the senior year, each major shall take a comprehensive examination, both written and oral. Part I will encompass those subjects considered to form the basic body of knowledge in the science. Part II will include questions that synthesize geologic knowledge or deal specifically with the major interest of the student. Part III will be an oral examination by the staff and invited guests.

Students proceeding to graduate school should take the graduate record examination early in their senior year and should be aware that some graduate schools require reading proficiency in two languages (usually French, German, or Russian), and attendance at an accredited summer field camp in geology.

Honors Program. For a degree with honors, a student must have demonstrated ability to pursue independent work fruitfully and exhibit a strong motivation to engage in research. A thesis subject may be chosen in the junior year and must be chosen within the first month of the senior year. Geology 77, 78 involves independent research in the field or the laboratory that must be reported in a dissertation of high quality, due in April of the senior year. Participation in a seminar is required of seniors.

Distribution Sequences. For fulfillment of the general distributional requirements, the following are suggested for non-geology majors. As a two-semester sequence, Geology 11 and 12 is designed to be relevant in an age in which most educated persons may expect to travel extensively and to observe or be intimately involved with many aspects of the earth. As a three-course sequence, Geology 11, 12, and 33s would be ideal. In order to meet specific interests, however, the third course may be Geology 21, 41 or 42f.

Unless otherwise specified, all courses are open to freshmen.

11. Principles of Physical Geology. A study of the geologic processes operating on and under the earth's surface, and the character and origin of the earth's major features and its mineral resources. Principles will be studied and major features examined both in the laboratory and the field. Four hours class; three hours laboratory (or field) work each week, and one all-day field trip.

First semester. Professors Foose and Kuntz.

11s. Principles of Physical Geology. Same as Geology 11.

Second semester. Professor Brophy and Staff.

12. Historical Geology. The history and development of the continents and ocean basins, and the evolution of life on the planet. Four hours class and two hours laboratory per week, and one all-day field trip.

Requisite: Geology 11. Second semester. Professor Belt and Staff.

12f. Historical Geology. Same as Geology 12.

First semester. Professor Belt and Staff.

21. Mineralogy. The study of minerals with emphasis on crystallography, crystal chemistry, and chemical-structural classification. The course will require identification of minerals and knowledge of their distribution, origin, and use. Laboratory studies of chemical and physical properties of minerals useful in mineral identification, including X-ray diffraction. Three hours class and three hours laboratory work per week.

Requisite: Geology 11 or permission of the instructor. First semester. Professor Brophy.

H23. Optical Mineralogy. The optical properties of isotropic, uniaxial and biaxial minerals in polarized light. The optical indicatrix is used as a model to describe the behavior of light transmitted through anisotropic media. Diagnostic optical properties and recognition of the common rock-forming minerals in thin section. Three hours combined laboratory-lecture per week.

Requisite: Geology 11, concurrent with Geology 21. First semester. Professor Kuntz.

24. Igneous and Metamorphic Petrology. A study of the genesis, classification, field relationships, and natural occurrences of the common igneous

and metamorphic rocks. The application of chemical principles and experimental petrology are stressed. Identification, analysis, and mapping of igneous and metamorphic rocks in the field. Three hours lecture and four hours laboratory per week.

Requisite: Geology 21 and H23. Second semester. Professor Kuntz.

33s. Geomorphology and Glacial Geology. Interpretation of land forms and their development by geological processes, tectonic activity, and climatic environment, based on field and aerial photographic studies. Geochronology of Pleistocene time. Two hours class and three hours laboratory each week.

Requisite: Geology 12. Second semester. Professors Belt and Foose.

35. Structural Geology. A descriptive and analytical study of sedimentary and igneous rock structures, and of the causes of deformation within the context of regional tectonic frameworks. Geologic structures will be studied and mapped in the field in areas of sedimentary and metamorphic rocks during the laboratory. Two hours class and four hours laboratory each week.

Requisite: Geology 24. First semester. Professor Foose.

36. Geochemistry. The application of chemical principles to geological processes and environments. Chemical equilibrium, thermodynamics and mineral stability. Phase equilibria in igneous and metamorphic reactions; the chemistry of ore-forming solutions; oxidation-reduction in surface environments, isotopes as marine environmental indicators, and the geochemical activities of micro-organisms are stressed. Three hours lecture and three hours laboratory per week.

Requisite: Geology 21 and 24, Chemistry 32, or permission of the instructors. Second semester. Professor Kuntz and others.

41. Sedimentology and Marine Geology. A study of ancient sediments and their modern analogs. Emphasis is placed on the dynamic processes of transport, deposition, interaction between organisms and sediment and diagenesis. Laboratory will include thin-section analysis using the petrographic microscope. Regional interpretation and principles of stratigraphic correlation. Three hours class and three hours laboratory each week.

Requisite: Geology 12. First semester. Professor Belt.

42f. Invertebrate Paleontology. A study of invertebrate organisms and their development through geologic time, as indicated by the fossil record. Ecology of ancient faunas, population analysis, influence of organisms on sediments, and the use of fossils in solving biostratigraphic problems. Three hours class and three hours laboratory each week.

Requisite: Geology 12 or Biology 22. First semester. Omitted 1969–70. Professor Belt.

45. Vertebrate Paleontology. The evolution of vertebrates as shown by the study of fossils and the relationship of environment to evolution. Three

hours class and four hours laboratory work each week. Same course as Biology 45.

Requisite: Geology 12 or Biology 24. Elective for Juniors. Limited to twelve students. First semester. Professor Wood.

46. Economic Geology. Origin, occurrence, distribution, uses, and production of mineral fuels, metalliferous minerals (ore deposits), and industrial minerals (non-metallics). Laboratory devoted to studies of important mining districts, examination of raw materials and their geologic relations, and to a solution of geologic problems related to their occurrence. Three hours class and four hours laboratory each week.

Requisite: Geology 24 and 35. Second semester. Professors Brophy and Foose.

52. Field Geology. Theory and application of the techniques and methods available to the geologist for measurement of earth features and phenomena. Reconnaissance and detailed surveying techniques and geochemical and geophysical methods will be employed, including an independent geological mapping program. Participation in a senior seminar and a senior thesis are required. (Honors program may be substituted for the senior thesis.) Six hours of directed field (or laboratory) work each week.

Requisite: Geology 35. Second semester. Professor Foose and Staff.

77, 78. Geology Honors. Independent research on a geologic problem within any area of staff competence. A dissertation of high quality will be required. A seminar covering a broad spectrum of geologic problems or world regions is included.

Elective for seniors who meet the requirements of the honors program. First and second semesters. The Staff.

97, H97, 98, H98. Special Topics. Independent Reading. Full or half courses.

Approval of the departmental chairman is required. First and second semesters.

GERMAN

Professors Peppard (Chairman) and Scenna; Associate Professor White‡ and assistant.

Major Program. The major must include the following courses: German 10, 11, 21, 23, 24, 26, 38 or 40, 97 or 98.

A major in German will take a written examination in the seventh week of the second semester of his senior year. A reading list will be provided to aid in the preparation for this examination.

‡ On leave second semester 1969–70.

Honors Program. In addition to the courses required for a *rite* major, candidates for honors must complete German 77, 78, and must present a thesis. They are urged to study an ancient or one other modern foreign language.

The aim of honors work in German is to offer the candidate the opportunity (a) to explore a chosen field or fields through a more extensive program of readings than is possible in course work; (b) to organize material for himself along historical or analytical lines, usually in the form of a thesis or essay; (c) to acquire a general view of the history and development of German literature or language.

Each candidate will present a thesis or essay on an approved topic. It may deal critically with the work of a specific author; it may treat the development of an idea in historical form; it may be a study of some particular literary form.

Each candidate will take a written general examination on the history of German literature, which will also include questions in his chosen field. The result of this examination together with the excellence of the thesis or essay will determine the degree of honors for which the Department will recommend the candidate.

Distribution Sequences. A two-course sequence will consist of German 11 plus one higher numbered course. A three-course sequence will consist of German 11 plus two higher numbered courses.

1. Elementary Course. Grammar, pronunciation, oral practice. Three hours per week for explanation and demonstration and three hours per week in the language laboratory for oral practice.

Elective for Freshmen. First semester. Professor Peppard.

3. Intermediate Course. Review of grammar and pronunciation, oral practice. Reading and analysis of selected texts. Three hours per week for explanation and demonstration, and three hours per week in small sections for drill in comprehension of the spoken language. Assignment to this course will be made on the basis of the score in the CEEB Achievement Test.

Elective for Freshmen. First semester. Professor Scenna.

3s. Intermediate Course. Same description as above.

Requisite: German 1, or its equivalent. Elective for Freshmen. Second semester. Professor Peppard.

5. Advanced Course. Reading and analysis of selected texts. Three hours per week for demonstration and explanation, and three hours per week in small sections for oral practice and discussion. Stress will be placed on comprehension of the spoken language and oral drill. Conducted in German.

Requisite: A satisfactory score in the CEEB Achievement Test, or German 3, or the equivalent. Elective for Freshmen. First semester. Professor White.

5s. **Advanced Course.** Same description as above.

Requisite: German 3 or its equivalent. Elective for Freshmen. Second semester. Professor Scenna.

Freshmen will be assigned to German 1, German 3, or German 5 on the basis of the score in the CEEB Achievement Test and previous training. Part of the drill in these courses will be in the language laboratory.

10. Advanced Composition and Conversation. Practice in free composition in German. Exercises in pronunciation and idiomatic conversation, with supplementary practice in the language laboratory. Oral reports on selected topics. Conducted in German. Three hours per week.

Requisite: consent of the instructor. Elective for Sophomores. Second semester. Offered in alternate years. Omitted 1969–70.

11. Introduction to German Literature. Reading and discussion of selected literary texts. This course will be conducted in German. Three hours of classroom work per week.

Requisite: satisfaction of the language requirement. Elective for Freshmen. First semester. Professor Scenna.

11s. Introduction to German Literature. Same description as above.

Requisite: satisfaction of the language requirement, including satisfaction of the requirement at the end of the first semester. Elective for Freshmen. Second semester. Professor Scenna.

21. German Literature of the Eighteenth Century. The development of German Literature from the middle of the eighteenth century to the beginning of the nineteenth. Selected readings from the works of Lessing, Wieland, Goethe, Schiller, and the Sturm und Drang. Conducted in German. Lectures and discussion. Three hours per week.

Requisite: German 11. Elective for Freshmen. First semester. Professor White.

23. Goethe's Faust. *Faust*, Parts I and II. A study of the Faust legend, lectures, and assigned readings. Conducted in German. Three hours per week.

Requisite: German 11. Elective for Freshmen. First semester. Professor Scenna.

24. German Romanticism. Studies in the Romantic movement in Germany, with readings from Tieck, F. Schlegel, Brentano, Kleist, Hoffmann, and Heine. Lectures and discussion. Three hours per week. Conducted in German.

Requisite: German II. Elective for Freshmen. Second semester. Omitted 1969–70.

26. German Literature from Romanticism to the Turn of the Century. The development of German Literature from the death of Goethe through the period of Naturalism. Selected readings, lectures, and discussion. Conducted in German. Three hours per week.

Requisite: German 11. Elective for Freshmen. Second semester. Professor Peppard.

35. Studies in Twentieth Century Prose. Readings in major writers such as Thomas Mann, Franz Kafka, and Hermann Hesse. Conducted in English. Students may read in the original or in translation according to their command of the language. Three hours per week.

Elective for Sophomores. Offered in alternate years. First semester. Professor Peppard.

37. German Literature in Translation. Selected works of German literature in a rapid survey from the medieval period to the present. Readings in the original may be assigned for those with sufficient command of the language. Three hours per week.

Elective for Juniors. First semester. Offered in alternate years. Omitted 1969–70.

38. German Drama of the Twentieth Century. Studies in German drama of the period with emphasis on the Expressionists. Brecht, and post-World War II dramatists. Three hours per week. Conducted in German.

Requisite: German 11. Elective for Juniors. Second semester. Offered in alternate years. Professor Scenna.

40. German Poetry of the Twentieth Century. Interpretation of German verse of the period, with emphasis on George, Rilke, Hofmannsthal, the Expressionists, and post-World War II poets. Three hours per week. Conducted in German.

Requisite: German 11. Elective for Juniors. Second semester. Offered in alternate years. Omitted 1969–70.

77, 78. Honors Course for Seniors.

First and second semesters. The Department.

97. Special Topics. Independent Reading Course.

First semester. Professor Peppard.

98. Special Topics. Independent Reading Course.

Second semester. Professor Scenna.

Greek See page 87.

HISTORY

Professors Commager, Gifford, Greene†, Halsted‡, Havighurst, Hawkins*, Rozwenc, Ward (Chairman) and Visiting Professor Ruiz. Associate Professors Cheyette, Czap, Petropulos†, Ratté*, and Visiting Associate Professors Mitchell and Sinkler. Assistant Professors Lees, Levin, R. Moore, and Weary.

* On leave 1969–70; † On leave first semester, 1969–70;
‡ On leave second semester 1969–70.

Major Program. Every student choosing history as his major field of study is assigned a departmental advisor who helps him define a primary and secondary field of concentration. A primary field involves the equivalent of four semester courses, a secondary field the equivalent of two semester courses; both can be organized either chronologically or topically. (For example: European history since 1815, Russian history, American history; or intellectual history and the history of science in Europe and America since Newton, or the comparative history of modernization in Russia, Japan, the Middle East, and Africa.) As the character of the concentration is progressively defined through course work and consultation, courses in other departments or programs of independent reading may be advised and accepted as fulfilling major requirements.

Requirements include History 11 or 11s, eight additional semester courses in history, an essay in each field of concentration, and an oral examination to be taken in the spring of the senior year.

Honors Program. Candidates for honors will include History 77–78, the writing of a thesis, among their eight departmental courses beyond History 11 or 11s. With special permission History 77 and/or 78 may be taken by non-honors candidates.

Distribution Sequences. A three-course departmental sequence may be fulfilled by History 11 or 11s and two courses which are related chronologically or topically. Acceptable sequences include any pair of courses in the following fields: European history (including English and Russian history); American history; Middle Eastern history; East Asian history; and History of Ideas (including Educational history and History of Science). Acceptable sequences which combine fields are: History 37 and 61; History 33 and 60; or a pair of courses from within one of the following groups: a) 23, 24, 37, 39, 41, 45, 51; b) 28, 32, 38, 55, 59; c) 22, 28, 32, 33, 38, 42, 46, 48, 52, 56, 62, 76. Any other sequence must be approved by the chairman of the Department.

A two-course departmental sequence will normally be fulfilled by History 11 or 11s and a course of the student's selection. Exceptions must be approved by the chairman of the Department.

Unless otherwise specified all courses are open to freshmen.

11. An Introduction to History. To develop in the student an awareness of what the historian does and what problems he encounters when he sets out to write the history of the past, the introductory course in history will consist of an intensive examination of different views of an important moment in history.

Required for all majors. Majors or prospective majors are advised to take this course as early as possible. First semester. The Department.

11s. An Introduction to History. Same course as History 11.
Second semester. The Department.

21. The Development of European Society I. Introduction to some of the major problems of western European history c. 1000 to 1715.
First semester. Professor Weary.

22. The Development of European Society II. Topics in the history of Europe from 1715 to the present, with emphasis on basic changes in social and political structure. Themes to be dealt with will include the Old Regime and its enlightened critics in the 18th century, the political and economic revolutions in France and England and the responses to them in the period 1789–1848; the emergence of the new nation states and the development of national societies in the second half of the 19th century and the relation between war and democracy in the 20th century.
Second semester. Professor Lees.

23. Medieval Society. An introduction to medieval European society. Readings and discussion on selected topics of institutional and social history, concentrating on the period from the 11th to the 13th century. Two one-and-one-half hour class meetings per week.
First semester. Professor Cheyette.

24. The Medieval Intellectual. The structure of study and the diffusion of ideas as seen through the writings of selected theologians, philosophers, poets, historians, and lawyers. The course will cover the entire period from Augustine to the fourteenth century. A reading knowledge of French will be useful, but not required.
Second semester. Professor Cheyette.

25s. The European Mind: Abelard to Luther. A seminar concentrating on one or two major themes of European thought in the Middle Ages. The topic this year will be medieval heresies. One meeting per week.
Requisite: History 23, 24, or Philosophy 17, or consent of the instructor.
Second semester. Professor Cheyette.

26. Early Modern Europe. Studies in the nature of the early modern state 1400–1600.
Second semester. Professor Weary.

28f. Germany Since 1740. A survey of the social and political history of modern Germany, with some attention to related intellectual developments as well. Major emphasis will be placed on themes such as the following: the theory and practice of enlightened absolutism, the social and intellectual impact and challenge of the French Revolution, the origins of liberalism and nationalism, the effects of industrialization, social and ideological tensions in the Second Empire, expansionism and the military elite, the Weimar ex-

periment in democracy, fascism and the structure of Nazi power. Some reading of original sources in English translation. Use will also be made of visual materials. Three class meetings per week.

First semester. Professor Lees.

31. European Thought in the Eighteenth and Nineteenth Centuries. The relations of the arts, philosophy, and the study of society to social developments will be treated in such illustrative topics as (1) the Enlightenment, (2) the Romantic Movement, (3) the Conflict of Science and Religion, (4) the Development of the Social Sciences, (5) Irrationalism and the *fin de siècle*.

First semester. Omitted 1969–70. Professor Halsted.

32f. Europe in the Nineteenth Century. Liberalism, nationalism, and socialism in Western and Central Europe in the period from the French Revolution to the end of the 19th century, with special emphasis upon the Revolutions of 1848, mid-Victorian political attitudes, movements of national unification, Marxism, and imperialism.

First semester. Professor Halsted.

33. Europe in the Twentieth Century. A survey of the political, social and cultural history of Europe in the context of emerging world civilization, 1890 to the present. Lectures, discussions, and readings focus on World War I, fascism, and European reconstruction in the Cold War.

First semester. Omitted 1969–70. Professor Ratté.

34. Topics in Contemporary Intellectual History. The seminar considers both methodological problems (social context, biography, and influence) and specific topics in the history of ideas in the 20th century. Topic for 1969: classics of 20th century European social thought. Major works by social scientists, novelists and poets including Freud, Weber, Mann, Eliot, Sartre, Teilhard de Chardin and the neo-Marxists.

Requisite: History 33 or an equivalent course in another institution. Second semester. Omitted 1969–70. Professor Ratté.

36. France From Napoleon to the Present. An introduction to institutional and intellectual developments in France since 1800.

Second semester. To be offered once only. Professor Mitchell.

37s. English History: Tudors and Stuarts. An examination of English society and institutions from 1485 to 1714: the securing of the Tudor dynasty; the Henrician break with Rome and the Elizabethan Settlement in religion; seventeenth century revolutions in political, religious and social context; the Revolution Settlement.

Second semester. Professor Havighurst.

38f. Britain since 1815. A study of some of the fundamental changes in English society and institutions from 1815 to the present. Chief topics to

be examined: the eighteenth century background; the condition of England, 1815; Victorian reform and compromise; factors in foreign policy; social thought and social change, 1870–1914; Socialist Britain, 1945–1965; from Empire to Commonwealth.

First semester. Professor Havighurst.

39s. Foundations of English Law and the Constitution. Origins of the English Constitution; Growth of Common Law; Evolution of Parliament; Development of Monarchy; selected topics in Constitutional Conflict since 1485.

Second semester. Professor Havighurst.

41. Russia. The history of Imperial Russia until 1894. The course will include a brief discussion of Russia's Kievan and Muscovite background and will emphasize the development of political institutions, the growth and collapse of serfdom, the agrarian question and the growth of revolutionary thought and action.

First semester. Professor Czap.

42. Russia. The history of Russia and the Soviet Union in the twentieth century. The course will include a discussion of the constitutional monarchy, the 1917 revolutions, the establishment of the Soviet regime, and the stabilization and direction of Russian society under the Communist party through the post-World War II years.

Second semester. Professor Czap.

44. Topics in Russian History. This year the seminar will consider episodes from the Russian revolutionary movement 1825–1917.

Admission by consent of the instructor.

Second semester. Professor Czap.

45. Early Japanese History. An introduction to the history of Japan from earliest times to 1600. The course will examine through readings and lectures (1) formation of the imperial institution in early tribal society, (2) contact with China and development of an aristocratic society, and (3) evolution of regional power groups and feudal institutions to 1600. Emphasis will be on relationships between land systems and political and social structures, and the development of a distinctive cultural style in three major periods of Japanese history.

First semester. Omitted 1969–70. Professor R. Moore.

46f. Modern Japanese History. An introduction to Japan's political and intellectual responses to the West since 1850 and the forces which enabled her to modernize rapidly. Treatment of traditional society, the Meiji Restoration and the beginning of modernization, revolutionary nationalism and the second world war, the American occupation and recovery in the Cold War.

First semester. Professor R. Moore.

47s. **Topics in Japanese History.** A seminar on selected problems of modernization in Japan. The topic this year is: Japan during the American occupation, 1945–52. Occupation reforms and their implications for Japanese society, thought and politics. One seminar meeting per week.

Limited to fifteen students, with consent of the instructor. Second semester. Professor R. Moore.

48. **Modern East Asia and the West.** Lectures, readings and class discussion of problems arising from the impact of Western military technology, science and political philosophy on China, Japan and Korea since 1800. Special attention is given to differences in China's and Japan's responses to Western civilization and their attempts to modernize.

Second semester. To be offered at Smith College 1969–70. Professor R. Moore.

51. **The Middle East.** From the birth of Islam in the seventh century A.D. to 1300. Special emphasis will be placed on the nature of Islamic society and thought, the formation of an Islamic civilization, and the interaction of Arabs, Persians, and Turks.

First semester. Omitted 1969–70. Professor Petropulos.

52. **The Middle East.** From the rise of the Ottoman Turks around 1300 and the formation of the Ottoman empire to the emergence of successor nation-states in the twentieth century. Topics receiving special emphasis: changes in the nature of Ottoman state and society, the impact of the West and alternative reform and modernize efforts, the contrasting experiences of Arabs and Turks, before and after World War I, the Palestine problem and the creation of Israel.

Second semester. Professor Petropulos.

54. **Topics on the Middle East.** Each year the course will focus on a single topic of broad range. Papers and discussion. One two-hour session per week. When the topic changes the course may again be taken for credit. Topic for 1970: the Arab-Israeli dispute. Admission by consent of the instructor.

Second semester. Professor Petropulos.

55. **The History of American Society.** An examination of the relationship between values and institutions in the formation of the American social system. Particular attention will be given to the complex interaction between the forces of social cohesion and social conflict as a way of understanding the movement of American society toward social disequilibration and civil war.

First semester. Professor Rozwenc.

56. **The History of American Society.** An examination of the adaptation and adjustment of American values and institutions in response to the

industrializing process. Particular attention will be given to social conflicts caused by the strains of rapid social change and their relationship to conflicts in world politics.

Second semester. Professor Rozwenc.

57. Seminar in Southern History. Selected topics, with emphasis on the forces that have affected Southern particularism. One two-hour and one one-hour meeting weekly.

Limited to fifteen students. First semester. Omitted 1969–70. Professor Hawkins.

58. The Progressive Generation. A study of the responses to change made by Americans in the generation from 1890 to 1920. By concentrating upon a single generation the course will explore some of the interrelations among politics, literature, business, the professions, religion, and popular culture. One seminar meeting weekly.

Limited to fifteen students. Second semester. Professor Greene.

59. Society and Politics in the Jacksonian Era. An intensive examination of the social and economic changes in America in the early nineteenth century and their implications for the practice of politics and the content of American democratic ideology.

First semester. Professor Ward.

60. The New Deal Decade. An examination of patterns of protest and reform in response to the crisis of the 1930's. Emphasis will be given to the reorientation of social values, the creation of new institutional arrangements, and the emergence of new ethnic and racial groups in the political stratum.

Limited to fifteen students. Second semester. Professor Rozwenc.

61. Foundations of American Civilization. An analysis of the first five generations of Americans (from early settlers through the Revolutionary generation) with emphasis upon the origins of certain fundamental themes in American history: social classes, immigration, European-American relations, frontier vs. city, science vs. religion, and constitutional democracy.

First semester. Omitted 1969–70. Professor Greene.

62. American Diplomatic History. The history of American foreign relations from the Revolution to the Cold War. After a brief introductory study of the roots of American diplomacy in the 1780–1870 period, this course will focus in depth on the evolution of America's role in world politics from the late nineteenth century to the present.

Second semester. Professor Levin.

63. Conference Course in American Intellectual History. This course will consist of reading, discussion and reports on some of the significant books of American intellectual history. One seminar meeting weekly.

Elective for Juniors with permission of instructor. First semester. Professor Commager.

64. Conference Course in American Intellectual History. Continuation of History 63. One seminar meeting weekly.

Elective for Juniors with permission of instructor. Second semester. Professor Commager.

66. Seminar in American Educational History. Selected topics from the colonial period to the present with emphasis on tensions between autonomous institutional standards and the needs and ideals of the general society. One two-hour and one one-hour meeting weekly.

Limited to fifteen students. Second semester. Professor Clark.

67. Race in American History. The course explores thought about race and institutions based on race within the context of American cultural development. Emphasis is on black Americans. One one-hour and one two-hour meeting weekly.

Limited to twenty-five students. First semester. Professor Sinkler.

68f. Mexico and the Hispanic-Indian Republics of Latin America. The racial, social, political, and intellectual development of Mexico and sister nations with similar historical backgrounds from independence to the present, with special attention to the impact of the United States on Mexican history.

First semester. To be offered once only. Professor Ruiz.

72. Ideas in American Culture. Selected moments in the history of ideas in American culture from Puritanism to pragmatism. Three class meetings per week.

Second semester. Professor Ward.

73. History and Theory. Readings and discussion dealing with problems of meaning and method in history: e.g., history as literary art and as social science; the characteristics of historical knowledge; social causation and historical explanation; and direction, pattern and purpose in historical change. One seminar meeting per week.

First semester. Omitted 1969–70. Professor Halsted.

75s. Seminar in Comparative History.

Second semester. Omitted 1969–70.

76. Seminar in Colonial History. Readings, discussion and essays focusing on the creation and maintenance of "the colonial situation," its characteristics, and the consequences of decolonization. Emphasis will be placed upon Africa. Two meetings per week.

Limited to fifteen students, with consent of the instructor. Second semester. Professor Gifford.

77. Conference Course. Senior Honors. Preparation of an honors thesis.
Elective for Seniors with the consent of the Department. With special permission of the department, students who are not candidates for honors may elect History 77 and/or History 78. First semester. The Department.

D78. Conference Course. Senior Honors. Preparation of an honors thesis. A double course.
Elective for Seniors with the consent of the Department. With special permission of the department, students who are not candidates for honors may elect History 77 and/or History 78. Second semester. The Department.

97, H97. Special Topics. Independent Reading Course.
First semester.

98, H98. Special Topics. Independent Reading Course.
Second semester.

History of Science. See page 159.

Interdepartmental Courses. See page 159.

ITALIAN

Professors French and Giordanetti.

Major Program. A combined major may be arranged by consultation. Note also under French and Spanish the description of combined majors with Italian.

Distribution Sequences. Sequence of two: Italian 12, 23 or Italian 12, 24. Sequence of three: Italian 12, 23, 24.

1. Italian Language. An intensive course in language: recognition and imitation of basic sentence patterns, vocabulary and verb forms. Oral-aural drill on readings. Per week: three class hours as scheduled; two hours of section with instructor, to be arranged; work in laboratory as regular part of preparation.
Elective for Freshmen. First semester. Professor French.

12. Readings in Italian Literature. Theater, such as Pirandello, *Enrico IV;* short story such as Verga, *Cavalleria rusticana;* novel such as Pavese, *Paesi tuoi;* poetry such as that of Quasimodo. Three hours per week.
Requisite: Italian 1. Elective for Freshmen. Second semester. Professor Giordanetti.

23. Dante. A reading of the *Inferno* and parts of the *Purgatorio* and *Paradiso*. Special study of the social and political background of the work. Reports and papers. Three hours of classroom per week.

Requisite: Italian 12. Elective for Sophomores. First semester. Professor French.

24. Literature of the Italian Renaissance. Origins in Boccaccio's *Decamerone* and Petrarch's *Canzoniere*. Reading of Cellini's *Vita*, Castiglione's *Cortegiano*, Machiavelli's *Principe*, etc., with study of the social background of the fifteenth and sixteenth centuries. Reports and papers. Three hours of classroom per week.

Requisite: Italian 12. Elective for Sophomores. Second semester. Professor French.

H25. Seminar in English on Pirandello. Colloquium based on a reading of the principal plays and of some critical works on Pirandello. Study of this author's place in the revolution of the theatre in the early twentieth century. One meeting a week.

Offered only in first semester 1969–70. Professors French and Giordanetti.

97, H97; 98, H98. Special Topics. Full or half courses.

First and second semesters.

Latin. See page 88.

Latin American Studies. See page 160.

Legal Studies. See page 160.

MATHEMATICS

Professors Breusch and Mauldon; Associate Professors Bailey (Chairman) and Denton; Assistant Professors Armacost, Crabtree, Plank, Starr and Wilcox.

Major Program. The basic minimum course requirements for a major are Mathematics 11, 12 or 13, 21, 22, 23, 25, 26, Physics 13, 14 and at least three more courses in mathematics. Students with a strong background in mathematics may be excused from certain courses such as Mathematics 11. It is recommended that such students take the Advanced Placement Examination in Mathematics.

A comprehensive examination for honors students will be given toward the end of the first semester of their senior year. For other majors, the comprehensive examination will be given during the first seven weeks of the second semester of their senior year.

A student considering a major in mathematics should consult with a member of the Department as early as possible, preferably during his freshman year. This will enable him to arrange a program best suited to his ability and interest, whether it be in mathematics, secondary school teaching, or a non-mathematical career. If possible, he should complete two courses during his freshman year, and he should have completed all required courses by the end of his junior year.

For a student considering graduate study in mathematics, an honors program and a reading knowledge of two foreign languages (usually German, French or Russian) are extremely desirable. Such a student is advised to take the Graduate Record Examination early in his senior year.

Honors Program. For a degree with honors, the following additional courses are required: Mathematics 42, 43, 77 and 78. Students are admitted to the honors program on the basis of a qualifying examination given during the second semester of their junior year. Before the end of the junior year, an individual thesis topic will be selected by an honors candidate in conference with a member of the Department. After an intensive study of this topic, the candidate will write a report in the form of a thesis which should be original in its presentation of the material, if not in content. All students majoring in mathematics are expected to attend the mathematics colloquium during their junior and senior years, and honors candidates will report to the seminar on their thesis work during their senior year.

Distribution Sequences. For fulfillment of the general distributional requirements, the following sequences are suggested for non-mathematics majors: 11–12, 11–34, or 12–21 as two-semester sequences; 11–12–21, 12–21–22, 12–21–42, or 11–34–35 as a three-semester sequence. Mathematics 13 may be regarded as equivalent to Mathematics 12 in constructing distribution sequences.

11. Introduction to the Calculus. Basic concepts of limits, derivatives, antiderivatives; applications; the definite integral, simple applications; circular functions and their inverses, logarithms and exponential functions; coordinate transformations, conic sections. Four class hours per week.

Elective for Freshmen. First semester. The Department.

11s. Introduction to the Calculus. Same description as Mathematics 11. Second semester. The Department.

12. Intermediate Calculus and Differential Equations. Review of the basic concepts of the calculus, with more stress on rigor; improper integrals, differentials, techniques of integration, Taylor's theorem with applications; infinite series and power series, an introduction to differential equations. Four class hours per week.

Requisite: a grade of C or better in Mathematics 11, an acceptable grade on the Advanced Placement Examination, or the consent of the Department.

Elective for Freshmen. Second semester. The Department.

12f. Intermediate Calculus and Differential Equations. Same description as Mathematics 12.

Elective for Freshmen. First semester. The Department.

13. Calculus. The completeness axiom for the real numbers. Some of the properties of continuous functions. Proof of the integrability of continuous functions, and of the fundamental theorem of integral calculus. A brief review of integration techniques, and of applications of definite integrals. Taylor's theorem. An introduction to infinite series. Differential equations of the first order, including an existence and uniqueness proof. Linear differential equations of the second order. Four class hours per week.

This course is restricted to incoming freshmen who have taken a substantial calculus course in high school. Admission only with the consent of the Department. First semester. Professor Plank.

21. Multivariable Calculus. Functions of several variables, continuity, partial derivatives; the chain rule; coordinate transformations, cylindrical and spherical coordinates; curves and surfaces; Taylor's theorem, extrema; multiple integrals, applications; line integrals; series. Four class hours per week.

Requisite: a grade of C or better in Mathematics 12 or the consent of the instructor. Elective for Sophomores. First semester. Professor Bailey.

21s. Multivariable Calculus. Same description as Mathematics 21.

Requisite: Same as Mathematics 21. Elective for Freshmen. Second semester. Professor Starr.

22f. Advanced Calculus. Basic topological concepts in n-space; theorems on compact sets, and on functions which are continuous on compact sets; implicit functions; measures of point sets, Riemann integrals in n-space; surface area, surface integrals, the divergence theorem; differential forms, Stokes' theorem; Fourier series, applied in the solution of simple partial differential equations. Selections from one or two of the following topics: metric spaces; Fourier integrals; the calculus of variations. Four class hours per week.

Requisite: Mathematics 21. Elective for Sophomores. First semester. Professor Armacost.

22. Advanced Calculus. Same description as Mathematics 22f.

Requisite: Mathematics 21. Elective for Sophomores. Second semester. Professor Bailey.

H23. Differential Equations. An introduction to the theory and methods of solution of ordinary differential equations; a brief treatment of several types of first order equations will be followed by a more thorough study of linear equations, and systems of linear equations. Two class hours per week.

A half course. This half course may be paired with Physics H21, the pair to be counted as equivalent to one full course. Offered for the last time in 1969–70.

Requisite: Mathematics 12. Elective for Sophomores. First semester. Professor Denton.

25. Algebra I. A brief consideration of properties of sets, mappings, and the system of integers, followed by an introduction to the theory of groups and rings including the principal theorems on homomorphisms and the related quotient structures; integral domains, fields, polynomial rings. Four class hours per week.

Elective for Sophomores. First semester. Professor Wilcox.

26. Algebra II. A continuation of the study of a finite-dimensional abstract vector space and the algebra of linear transformations which act on it, together with the isomorphic algebra of matrices; the dual space, the effect of a change of basis, invariant subspaces, minimal polynomial of a transformation, characteristic vectors, various canonical forms. Four class hours per week.

Requisites: Mathematics 12 and 25. Elective for Sophomores. Second semester. Professor Wilcox.

33. Theory of Numbers. An introduction to the theory of rational integers; divisibility, the unique factorization theorem; congruences, quadratic residues. Selections from the following topics: Diophantine equations; Waring's problem; asymptotic prime number estimates; continued fractions; algebraic integers, unique factorization domains. Four class hours per week.

Elective for Sophomores. First semester, alternate years. Omitted 1969–70.

34. Introduction to Probability and Statistics. Elementary probability, including statements of the law of large numbers, and the central limit theorem; joint distribution functions; distribution functions of frequent occurrence in statistics, such as the Normal, Poisson, Chi square and Student's t, and their use in hypothesis testing and estimation; roles of the law of large numbers and the central limit theorem in hypothesis testing and estimation (including errors of type I and type II); a brief introduction to non-parametric methods. Four class hours per week.

Requisite: Mathematics 11. Except with special permission of the departments concerned, this course and Economics 45 may not both be taken for credit. Elective for Freshmen. Second semester. Professor Denton.

35. Statistics. Intermediate probability; forms and sketches of proofs of the law of large numbers and the central limit theorem; Neyman-Pearson theory of hypothesis testing and estimation; properties of some parametric and non-parametric tests of wide applicability; introduction to decision theory. Four class hours per week.

Requisite: Mathematics 34. Elective for Sophomores. First semester, alternate years. Professor Denton.

36. Topics in Geometry. A selection of topics from projective, non-Euclidean and differential geometry. Four class hours per week.

Requisite: Mathematics 12. Elective for Sophomores. Second semester, alternate years. Professor Mauldon.

42. Functions of a Complex Variable. An introduction to analytic functions; complex numbers, derivatives, conformal mappings, integrals, Cauchy's theorems; power series, singularities, Laurent series, analytic continuation; Riemann surfaces; special functions. Four class hours per week.

Requisite: Mathematics 21 (or 31). Elective for Sophomores. Second semester. Professor Plank.

43. Functions of a Real Variable. An introduction to Lebesgue measure and integration; topology of the real numbers, inner and outer measures and measurable sets; the approximation of continuous and measurable functions; the Lebesgue integral and associated convergence theorems; the Fundamental Theorem of Calculus. Four class hours per week.

Requisite: Mathematics 22 or 32. Elective for Juniors. First semester. Professor Mauldon.

44. Topology. An introduction to general topology; the topology of Euclidean, metric and abstract spaces with emphasis on such notions as continuous mappings, compactness, connectedness, completeness, separable spaces, separation axioms, metrizable spaces. Additional topics may be selected to illustrate applications of topology in analysis or to introduce the student briefly to algebraic topology. Four class hours per week.

Requisite: Mathematics 22 or 32, or consent of the instructor. Elective for Juniors. Second semester, alternate years. Omitted 1969–70.

67. Conference Course. The content of this course will vary from year to year.

Elective for Juniors with the consent of the Department. First semester. Professor Starr.

77. Honors Course.

Elective for Seniors with the consent of the Department. First semester. The Department.

78. Honors Course.

Requisite: Mathematics 77. Second semester. The Department.

97, H97. Special Topics. Independent Reading Course. Full or half course. First semester.

98, H98. Special Topics. Independent Reading Course. Full or half course. Second semester.

MUSIC

Professor Mishkin (Chairman); Assistant Professors McInnes and Wheelock; Mr. May.

Major Program. The course of study for music majors should be planned, in consultation with the Department, to meet the needs and interests of the individual student. Concentration may be in music history, theory and composition, or performance. All majors are advised to elect a two-year sequence in music theory, Music 31–32, 33–34, as basic to all academic study of music. The *rite* major with concentration in theory or music history consists of a minimum of eight semester courses. The *rite* major with concentration in performance consists of a minimum of nine semester courses including at least six half courses in performance, Music H29–H30.

Honors Program. The honors major should elect the course of study stipulated for the *rite* major plus Music 77–78. The senior project acceptable for honors in music may be an historical or critical thesis, a composition, or a formal recital, dependent upon the student's field of concentration.

Distribution Sequence. Two-course sequences are: a) Music 11 and any semester course in music literature; b) Music 31–32. Three-course sequences are: a) Music 11, 31–32; b) Music 11 and any two semester courses in music literature.

11. Introduction to Music. An introductory study of such problems as: the development of an adequate descriptive language for the materials of western music; the analysis of a single work; systematic theories for a large body of works; inferring sounds from notation; changes in the social function of composing, performing, and listening; historical constructs as applied to music. Three class meetings per week.

Elective for Freshmen. First semester. Professor Wheelock.

11s. Introduction to Music. Same course as Music 11.

Elective for Freshmen. Second semester. Mr. May.

21. History of Western Music. The history of western music from 500 B.C. through early Baroque music (seventeenth century). The techniques, forms and styles used during the various periods. Three class meetings weekly.

Requisite: Music 11 or the consent of the instructor. Elective for Sophomores. First semester. Omitted 1969–70.

22. History of Western Music. A continuation of Music 21. The history of western music from 1700 to the present day. Three class meetings weekly.

Elective for Sophomores. Second semester. Omitted 1969–70.

H29, H30. Performance. Under the Four-College Cooperative Plan courses are offered in: piano, organ, voice, violin, viola, violoncello and occasionally

in other performance media. These courses may be elected by students who first satisfy the Department and the individual instructor that they are prepared to undertake the study of solo music literature of artistic worth. Instruction will be given by members of the Department of Music of Amherst, Mount Holyoke, and Smith. The courses listed in the catalogues of the neighboring institutions are: Smith College—Piano 121, 222, 323, 424, 525; Violin 151, 252, 353, 454, 555; Viola 161, 262, 363, 464, 565; Violoncello 171, 272, 373, 474, 575; Voice 141, 242, 343, 444, 545; and at Mount Holyoke College—Voice 167f, 168s. A fee of $112.50 per semester is charged to cover a portion of the expense of this special type of instruction. One hour of private instruction and nine hours of practice per week are expected.

Note: Two music performance half courses may be counted as the equivalent of one full course for fulfilling degree requirements. Study for less than two consecutive semesters will not be counted for satisfaction of the degree requirements.

Elective for Freshmen with the consent of both the Amherst Music Department and the instructor. This course may be repeated. First and second semesters.

31. Elementary Theory. Basic principles of harmonic and contrapuntal technique. Triads and their inversions, nonharmonic tones, modulations, harmonizations in chorale style. Two class meetings a week.

Requisite: ability to play all written work and the consent of the instructor. Elective for Freshmen. First semester. Professor Mishkin.

32. Elementary Theory. A continuation of Music 31. Seventh chords, elementary phrase structure, formal analysis, binary composition. Two class meetings a week.

Requisite: Music 31. Elective for Freshmen. Second semester. Professor Mishkin.

33. Chromatic Harmony. The theory of tonality as practiced from the 17th to the early 20th century, with particular emphasis on the resources of chromaticism. Students will analyze pieces from this period and write pieces modeled on them. Two class meetings a week.

Requisite: Music 32. Elective for Sophomores. First semester. Mr. May.

34. Chromatic Harmony. A continuation of Music 33. Two class meetings a week.

Requisite: Music 33. Elective for Sophomores. Second semester. Mr. May.

35. Advanced Theory. Further work in imitations of classical models according to the needs and experience of the individual student.

Requisite: Music 34. Elective for Juniors. First semester. Professor Wheelock.

36. Advanced Theory. A continuation of Music 35.

Requisite: Music 35. Elective for Juniors. Second semester. Professor Wheelock.

41. Renaissance Music. A study of sixteenth century choral music as an expression of the cultural developments of the era. Two class meetings per week.

Requisite: Music 11 or the consent of the instructor. Elective for Sophomores. First semester. Professor McInnes.

42. Bach. The Bach style studied in relation to the development of music since 1600. Three class meetings a week.

Requisite: Music 11 or the consent of the instructor. Elective for Juniors. Offered in alternate years. Second semester. Omitted 1969–70. Professor Mishkin.

43. Mozart. A study of the instrumental and sacred choral music. Two class meetings a week.

Requisite: Music 11 or the consent of the instructor. Elective for Sophomores. Offered in alternate years. First semester. Professor Mishkin.

44. Beethoven. A study of the piano, chamber, orchestral and choral music. Three class meetings a week.

Requisite: Music 11 or the consent of the instructor. Elective for Freshmen. Offered in alternate years. Second semester. Omitted 1969–70. Professor Mishkin.

45. Opera. The development of the musical drama from 1600 with emphasis on a detailed study of operatic types. Concentration on representative works by Monteverdi, Gluck, Mozart, Verdi and Wagner. Three class meetings a week.

Requisite: Music 11 or the consent of the instructor. Elective for Sophomores. Offered in alternate years. First semester. Omitted 1969–70. Professor McInnes.

47s. Nineteenth Century Music. Solo and chamber music; the art song and choral music; the symphony and symphonic poem. Two class meetings a week.

Requisite: Music 11 or the consent of the instructor. Elective for Sophomores. Offered in alternate years. Second semester. Professor Mishkin.

48. Twentieth Century Music. Analyses of key works by Bartok, Berg, Schoenberg, Stravinsky, and Webern and discussion of some recent developments. Three class meetings a week.

Requisite: Music 11 or the consent of the instructor. Elective for Juniors. Offered in alternate years. Second semester. Professor Wheelock.

71. Composition Seminar. Creative composition in music according to the needs and experience of the individual student.

Requisite: Music 34 or the consent of the instructor. Elective for Juniors. First semester. Professor Wheelock.

72. Composition Seminar. A continuation of Music 71.

Requisite: Music 34 or the consent of the instructor. Music 71 and 72 may be elected for more than one year. Elective for Juniors. Second semester. Professor Wheelock.

77, D77, 78, D78. Conference Course. Advanced work in history, composition or performance for honors candidates. A thesis, a major composition or a formal recital will be required. No student shall elect more than one semester as a double course. A double course or a full course.

Elective for qualified Seniors.

NATURAL SCIENCES

Advisory Committee: Professor Dempesy (Chairman); Associate Professor Fink; Assistant Professors Snellgrove and Starr; and others.

This major is offered to the natural science oriented student whose professional goals would be best served by exposure to a broad spectrum of science courses rather than by an intensive study in a traditional science field. Examples of students who might find this program tailored to their needs are: A) A student intending to teach science at the secondary school level where ability to teach two, and sometimes three, sciences is often required. B) A student who would like a science major in preparation for further study in the history or philosophy of science. C) A student intending to pursue graduate study in business administration with the hope of becoming an administrator in a science-oriented industry.

The courses for this program are selected from the standard offerings of the various science departments. The members of the faculty committee indicated above serve as advisors to students and administrators of the honors program, the comprehensive examination, and other departmental functions. Admission to this major will be considered on a case by case basis. Any student who feels he might benefit from such a program is urged to consult with a committee member as early as possible to discuss his particular case and to consider feasible lines of study. Final acceptance of an applicant to the major will be determined by the committee as a whole. No student will be admitted to the program after ten days of the second semester of his Junior year.

Major Program: All students will be required to complete the following courses:

Math 11, 12; Chemistry 11, 32; Physics 13, 14, 28.

In addition, each student must select at least four more courses to complete a program exhibiting a coherent structure relevant to his educational

goals. These selections must be made from the offerings of Division III (Mathematics and Natural Sciences) and in consultation with a committee member. Final approval of any program must be obtained from the Committee as a whole. History of Science and Philosophy of Science courses may also be considered in the elective category. A comprehensive exam concerning the material of the required courses, but also covering elective courses on an individual basis, will be given during the first semester of the Senior year.

Honors Program: A candidate for degree with honors must complete 2 electives beyond the basic program described above and in addition must take Natural Sciences 77, D78. With the approval of the committee, an honors candidate may choose to do his senior honors work with any interested faculty member in the associated sciences. Examples of relevant topics for thesis work are: A) Development of pedagogical material for secondary school science courses. B) Development of lecture demonstrations and laboratory experiments for introductory college level science courses. C) Development of the materials and ideas necessary to communicate an understanding of some aspects of science to a non-specialist. D) An original presentation in the history of science. E) A research project in any of the associated science departments.

The comprehensive exam, with additional individually designed portions, must also be taken by honors candidates in the first semester of the senior year.

77, D78. Natural Sciences Honors. Individual, independent work on a problem approved by the committee, culminating in the presentation of a thesis. Elective for seniors admitted to the honors program. Full course first semester. Double course second semester. The Committee.

97, H97, 98, H98. Special Topics. Independent Reading. Full or half course. First and Second semesters.

PHILOSOPHY

Professors Epstein, Kennick and Pemberton; Assistant Professors Sicha and Barnes.

Major Program. Problems of Inquiry 1; eight courses in philosophy, necessarily including Philosophy 17 and 18; the comprehensive examination, consisting of two written examinations, one in the history of philosophy and the other on a topic of the student's choice, e.g. ethics, logic, metaphysics.

Majors and majors with honors may also be taken in combined fields, e.g. Philosophy and Mathematics, Philosophy and History, Philosophy and

Psychology, with the approval of the departments concerned. The selection of courses to constitute such combined majors, the topic for an original essay and the arrangements for comprehensive examinations must in each case be approved in advance by representatives of the departments concerned.

Honors Program. Problems of Inquiry 1; eight courses in philosophy, necessarily including Philosophy 17 and 18, 13 or 26, 14, and 77 and 78; the writing of an acceptable thesis; the comprehensive examination, consisting of two written examinations, one in the history of philosophy and the other on a topic of the student's choice, and an oral examination on the thesis and related topics.

Distribution Sequences. Two-course sequences: 17 and 18; 11 (11s) or 13 or 26 and, subject to prerequisites, any other course in philosophy; but not any of the following combinations: 11 and 13, 11 and 26, 13 and 26. Three-course sequences: subject to prerequisites, any three courses in philosophy, only one of which may be 11 (11s), 13, or 26.

11. Introduction to Philosophy. Training in philosophical reasoning. Classical and contemporary authors, chosen to exemplify basic problems of philosophy, will be discussed. Three class hours per week.

Elective for Freshmen. Each section limited to 25 students. First semester. Professors Epstein and Barnes.

11s. Introduction to Philosophy. Training in philosophical reasoning. Classical and contemporary authors, chosen to exemplify basic problems of philosophy, will be discussed. Three class hours per week.

Elective for Freshmen. Each section limited to 25 students. Second semester. Professor Sicha.

13. Introduction to Logic. Primarily a discussion of the basic elements of propositional logic (symbolization, proof, truth-tables and validity) and quantificational logic (variables, symbolization, proof and invalidity). Additional topics will be taken from the following: identity and description; axiomatic and tree-proof formulations of first-order logic; many-valued, modal and intensional logic; the formulation of first-order theories. Three class hours per week.

Elective for Freshmen. First semester. Professor Sicha.

14. Ethics. A critical survey of selected ethical theories from Plato to the present, covering the major western philosophical views on the nature of morality and on what a person must do to be moral.

Elective for Freshmen. Second semester. Professor Barnes.

17. History of Ancient and Medieval Philosophy. A survey of European philosophy from the early Greeks to the end of the Middle Ages, with emphasis on the presocratic philosophers, Plato, Aristotle, St. Augustine,

and St. Thomas Aquinas. Reading and discussion of selected works of the period. Three class hours per week.

Elective for Freshmen. First semester. Professor Kennick.

18. History of Modern Philosophy. A survey of European philosophy from 1500 to the present, with emphasis on Descartes, Leibniz, Spinoza, Locke, Berkeley, Hume, and Kant. Reading and discussion of selected works of the period. Three class hours per week.

Requisite: Philosophy 17 or the consent of the instructor. Elective for Freshmen. Second semester. Professor Kennick.

21. Topics in Philosophy. This course surveys (a) the work of one philosopher, or (b) a period or school of philosophy, or (c) the basic historical writings in a subject not taught in regular courses. This course may be repeated for credit by permission of the Department.

In 1969–70 the course is a survey of the main problems of medieval philosophy with particular attention to the problem of universals.

Requisite: one course in philosophy or permission of the instructor. Elective for Sophomores. First semester. Professor Sicha.

21s. Topics in Philosophy. Same as Philosophy 21.

In 1969–70, a study of major developments in philosophy in the English-speaking world during the twentieth century. Attention will be paid particularly, though not exclusively, to Moore, Russell, and Wittgenstein.

Requisite: one course in philosophy or permission of the instructor. Elective for Sophomores. Second semester. Professor Barnes.

23. Epistemology. A treatment of traditional problems concerning the nature and acquisition of knowledge.

Requisite: one course in philosophy or consent of the instructor. Elective for Sophomores. First semester. Professor Epstein.

26. Symbolic Logic. A rigorous formal treatment of first-order logic, including a discussion of consistency and completeness. Subsidiary material will include a discussion of the fundamentals of naive set theory, the construction of the real numbers from the natural numbers, the logicist and set-theoretic constructions of the natural numbers. Also the content of Gödel's theorem will be briefly discussed.

Requisite: Philosophy 13 or the consent of the instructor. Elective for Sophomores. Second semester. Omitted 1969–70. Professor Sicha.

28. Introduction to the Philosophy of Science. An examination of Concept Formation, Explanation and Confirmation in the physical and social sciences. Detailed results will be brought to bear on such representative issues as: the relation between theory and measurement, the logical character of scientific laws and theories, causality and indeterminism.

Requisite: Philosophy 13 or 26, or consent of the instructor. Elective for Sophomores. Second semester. Professor Epstein.

31. Aesthetics. A critical examination of selected theories of the nature of art, expression, creativity, artistic truth, aesthetic experience, interpretation and criticism. Special emphasis is placed on the thought of modern philosophers and critics. Three class hours per week.

Requisites: two courses in philosophy, or one course passed with a grade of B− or better, or the consent of the instructor. Elective for Juniors. First semester. Professor Kennick.

32. Metaphysics. A critical examination of selected metaphysical theories in the light of the arguments used to support them. The topics of sample theories include: appearance and reality; sense-data; solipsism; space, time, and infinity; universals; the existence of God; the nature of mind.

Requisite: two courses in philosophy, or one course passed with a grade of B− or better, or the consent of the instructor. Elective for Juniors. Second semester. Omitted 1969–70. Professor Sicha.

33. Philosophy of Religion. An examination of some basic religious concepts in the light of philosophical analysis. Among topics to be considered are the nature and status of religious knowledge, the existence and nature of God, and some religious views of human nature and conduct. Three class hours per week. Same course as Religion 33.

Requisite: Religion 16, or Philosophy 11 or 17, or consent of the instructor. Elective for Juniors. First semester. Professor Pemberton.

61. Seminar in Philosophy. An examination of philosophical problems raised by Freud's concept of unconscious psychological processes. Readings will include Freud's *General Introduction to Psychoanalysis* and numerous recent philosophical papers.

Requisite: two courses in philosophy or the consent of the instructor. Elective for Juniors. First semester. Professor Barnes.

62. Seminar in Philosophy. An examination of some of the epistemological, logical and ontological problems associated with meaning and reference. Readings will include the critically important papers of Frege, Russell, Strawson and Quine.

Requisite: two courses in philosophy or the consent of the instructor. Elective for Juniors. Second semester. Professor Epstein.

77. Conference Course. Required of candidates for honors in philosophy. The writing of an original essay on a topic chosen by the student and approved by the Department.

Elective for Seniors. First semester. The Department.

D78. Conference Course. Required of candidates for honors in philosophy. A continuation of Philosophy 77. A double course.

Elective for Seniors. Second semester. The Department.

97. Special Topics. Independent Reading Course. Reading in an area selected by the student and approved in advance by a member of the Department.

Requisite: two courses in philosophy, or one course passed with a grade of B or better, and the consent of the instructor. First semester.

98. Special Topics. Independent Reading Course. Same as Philosophy 97. Second semester.

PHYSICAL EDUCATION

Professors Dunbar, McCabe (Acting Chairman), Ostendarp and Wilson; Associate Professor Serues; Assistant Professors Dunklee, Gooding, Mehr, Terrill and Thurston.

Complete physical examination, physical fitness tests, special exercises for individual development and a program of instruction and participation in team games and sports. Required for Freshmen and Sophomores and men who have not met the departmental standards in swimming, fitness, team games, and recreational sports.

PHYSICS

Professors Benson†, Dempesy, Gordon, Romer* and Towne (Chairman); Assistant Professors Duffy, Valberg and Watson.

Major Program. The minimum course requirements for a major in physics are as follows: Mathematics 11, 12, 21; Chemistry 31 or Physics 75; Physics 13, 14, 26, 27, 28 and 33.

In addition, all physics majors will attend the Physics Seminar during their junior year, and will participate actively in it in the senior year. Majors will be required to demonstrate ability in computer programming. Students should consult the Department for information concerning the various ways this requirement can be satisfied. Senior majors must pass a written comprehensive examination.

Problems of Inquiry III is not required of physics majors.

Honors Program. The course requirements for a major with honors are the specific courses listed above, plus Physics 58, 77 and 78, and at least one additional mathematics course. (For students intending to make a career in physics, Physics 73 and 75 are strongly recommended.) At the end of

*On leave 1969–70. †On leave first semester 1969–70.

the first semester of the senior year, the student's performance on the first comprehensive examination, together with his progress on his honors problem will determine the advisability of his being allowed to continue the honors program.

Any student considering a major in physics should seek the advice of a member of the Department as early as possible in order to work out a program best suited to his interest and ability, whether he is considering a career in physics, engineering, secondary school science teaching, one of the inter-science fields such as biophysics, or a non-scientific career. Mathematics 11 must be taken no later than the first semester of freshman year to complete an honors major and no later than the first semester of sophomore year to complete a *rite* major. Prospective physics majors should plan to take Physics 26 at the earliest convenient time. It should be noted that, at the discretion of the instructor, stated prerequisites may be waived if warranted by individual circumstances. Students interested in majoring in biophysics should consult the separate biophysics listing.

The aim of honors work in physics is to provide an opportunity for the student to develop under faculty direction his ability and interest in individual investigation, and his skill in experimental or theoretical techniques. The primary fields of experimental research in progress in the department are low temperature physics, nuclear magnetic resonance, mass spectrometry and oceanography. In addition, however, experimental equipment is available for work in some phases of magnetism, x-rays, optics, electronics, and atomic and nuclear physics. The student is given facilities to review the literature in the field chosen, to design, construct and assemble his experimental equipment, to perform experiments, and finally to prepare a thesis, which is due in May. During the spring, he will also present his work in the Physics Seminar, and at the end of the second semester, he will take an oral examination, in addition to the written comprehensive examinations required of all physics majors (see above). This oral examination is devoted primarily to the student's thesis and to questions suggested by his work on the written comprehensive examinations.

The departmental recommendation for the various degrees of honors will be based on the student's record in the Department, the honors work, and the comprehensive and oral examinations.

Distribution Sequences. Physics 11, 12 constitute a two-semester sequence intended primarily for non-science majors. Mathematics 11, Physics 13 or Physics 13, 14 constitute a two-course sequence and Mathematics 11, Physics 13, 14 a three-course sequence.

Further information on the physics program is contained in a booklet, "Physics at Amherst College," available from the Admission Office.

10f. Fundamental Concepts of Physical Science. Same course as Chemistry 10f. By focusing on topics of fundamental significance in physical science, the course is designed to enable students with a limited background, but a serious interest in science to profit more fully from established departmental sequences in chemistry and physics.

Students with the following backgrounds might consider seeking admission to the course prior to enrolling in Chemistry 11 or Physics 13:

a. No secondary school chemistry or physics.

b. Only one year of secondary school chemistry or physics, but not both.

c. One year of both secondary school chemistry and physics, but one of which was taken prior to the third year of secondary school.

d. A secondary school chemistry or physics course which the student feels did not provide a fundamental background in the basic concepts of the discipline.

This course is designed for students who intend to undertake substantial work in science at Amherst (i.e. at least Chemistry 11, 31, and Physics 13, 14) and will not be appropriate to students seeking to satisfy distribution requirements. Four hours of classroom work and four hours of laboratory per week. Offered only when there is sufficient need.

Elective for Freshmen with the consent of the instructor. First semester. Omitted 1969–70. Professors Watson and Whitney.

11. The Rise of Twentieth-Century Physics. Physics 11 and Physics 12 constitute a two-course sequence, intended primarily for non-science majors. Emphasis is placed on topics and conceptual problems which have played especially important roles in the development of physics and have influenced other areas of thought. Topics from mechanics and gravitation, optics, electromagnetism, and the two revolutionary conceptual developments of this century: relativity and quantum theory. Wave-particle duality and indeterminism. Discussion of some contemporary unsettled problems concerning the "fundamental particles" from an introductory point of view. Any needed mathematics beyond algebra and elementary trigonometry will be developed as the need arises. Three class hours per week and occasional laboratories.

Elective for Freshmen. First semester. Professor Dempesy.

12. The Rise of Twentieth-Century Physics. The second semester of the course outlined above under Physics 11.

Requisite: Physics 11. Second semester. Professor Dempesy.

13. Introductory Physics. Kinematics in three dimensions; Newton's laws of motion; the conservation of linear momentum and energy; rotational kinematics and dynamics; angular momentum; special relativity. Four hours of lecture and discussion and one three-hour laboratory per week.

Requisite Mathematics 11 or its equivalent. Elective for Freshmen. (Students who have not had high school physics should consult with the De-

partment and may be advised to take Problems of Inquiry 3 before entering Physics 13.) First semester. Professor Towne.

13s. **Introductory Physics.** Same course description as Physics 13.
Second semester. Professors Watson and Gordon.

14. Introductory Physics (second part). Development of elementary field concepts of electricity and magnetism; behavior of transient d-c and a-c electrical circuits; analysis of the experimental evidence supporting a belief in the existence of electrons, photons and other elementary particles, Rutherford's concept of the nucleus, and the Bohr model of the atom; origins of nuclear physics. Four hours of lecture and discussion and one three-hour laboratory per week.

Requisite: Physics 13 or 13s. Elective for Freshmen. Second semester. Professor Benson .

14f. **Introductory Physics (second part).** Same course description as Physics 14.
First semester. Professor Duffy.

H21. Experiments in Modern Physics. This course is designed to introduce the student to some of the important tools of modern experimental physics. Included in the course will be experiments with the mass spectrometer, omegatron, beta-ray spectrometer, Stern-Gerlach apparatus, nuclear magnetic resonance spectrometer, laser beam, and nuclear counting equipment. Special emphasis will be placed on high vacuum techniques and methods of detecting and measuring radio-activity. One class meeting and one four-hour laboratory per week. A half course. This half course may be paired with Mathematics H23, the pair to be counted as equivalent to one full course.

Requisite: Physics 14 or 14f. Elective for Sophomores. First semester. Professors Gordon and Dempesy.

26. Mechanics. Solution of problems in one-dimensional motion; central forces; the two-body problem; rotating frames of reference; special relativity. Four class hours per week.

Requisite: Physics 14 or 14f, Mathematics 21 or 21s. Elective for Sophomores. Second semester. Professor Valberg.

27. Wave Phenomena. General characteristics of wave motion approached through the wave equation and the solution to boundary value problems. Energy relationships, diffraction, interference, reflection, refraction and polarization. Normal modes and eigenfunction expansions. Each phenomenon will be discussed in the context of either optics or acoustics depending upon the relative importance of its application in the two fields. Four class hours per week and occasional laboratories.

Requisite: Physics 14 or 14f, Mathematics 21 or 21s. Elective for Sophomores. First semester. Professor Gordon.

28. Electrical Measurements and Electronics. Laboratory work dealing with electrical and magnetic measurements, d-c, and a-c circuits, transistor electronics, and microwave measurements. Emphasis is placed on actual laboratory investigation, with special attention to transistor circuits. In special cases experiments may be selected to fit the needs of individual students. Two hours of lecture and two three-hour laboratories per week.

Requisite: Physics 14 or 14f and Mathematics 12. Elective for Sophomores. Second semester. Professors Duffy and Valberg.

33. Modern Physics. Twentieth century developments in physics. Photoelectric effect, Bohr's quantum theory, atomic spectra and the vector model of the atom, x-rays, selected topics in nuclear physics, introduction to Schrödinger wave mechanics. Four hours of lecture and discussion and one three-hour laboratory per week.

Requisite: Physics 26. Corequisite: Physics 27. (i.e. Students wishing to take Physics 33 should plan either to have already taken Physics 27, or to take Physics 27 concurrently with Physics 33.) First semester. Professors Valberg, Dempesy and Gordon.

34. Solid State Physics. Selected aspects of the behavior of solids, emphasizing those features which can be understood with simple models. Lattice vibrations and the Debye theory of specific heats, thermal conductivities, dielectric behavior, magnetic properties of diamagnetic, paramagnetic, and ferromagnetic solids, the free electron model of metals, elementary band theory, semi-conductors, superconductivity. Four class hours per week.

Requisite: Physics 14 or 14f. Elective for Juniors. Second semester. Professor Duffy.

58. Electromagnetic Theory. A development of Maxwell's electromagnetic field equations and some of their consequences. Electrostatics, potential theory, static magnetic fields, macroscopic theory of dielectric and magnetic materials, Poynting's theorem, electromagnetic waves, radiation from an accelerated charge. Four class hours per week.

Requisite: Physics 26. Second semester. Professor Gordon.

73. Analytical Dynamics and Wave Mechanics. Lagrangian and Hamiltonian formulations of classical mechanics. Calculus of variations and Fourier integral analysis. Quantum mechanical expectation values, Ehrenfest's theorem, uncertainty principles. Eigenfunctions of square potentials, harmonic oscillator, hydrogen atom. Four class hours per week.

Requisites: Physics 26; Physics 27. Elective for Juniors. First semester. Professor Watson.

74. Quantum Mechanics. Time evolution of states, approximation techniques, electron spin, the exclusion principle, scattering theory, transformation theory. Four class hours per week.

Requisite: Physics 73. Elective for Juniors. Second semester. Professor Towne.

75. Thermodynamics and Statistical Mechanics. First, second and third laws of thermodynamics with applications to various physical systems. Phase transitions. Applications to low temperature physics, including superconductors and liquid helium. Introductory kinetic theory and statistical mechanics. Applications of Fermi-Dirac and Bose-Einstein statistics. Four class hours per week.

Requisites: Mathematics 21 and Physics 33, or consent of instructor. First semester. Professor Valberg.

77. Honors Course. Individual, independent work on some problem, usually in experimental physics. Reading, consultation and seminars, and laboratory work.

Elective for Seniors who have been admitted to the honors program. First semester. The Department.

D78. Honors Course. Same course description as Physics 77. A double course.

Requisite: Physics 77. Second semester. The Department.

97, H97, 98, H98. Special Topics. Independent Reading Course. Full or half course.

First and second semesters.

POLITICAL SCIENCE

Professors Kateb, Latham (Chairman), and Ziegler; Assistant Professors Arkes and Taubman; Mr. Schloming.

Major Program. A major in political science consists of nine courses in political science. Political Science 11 or 11s is a prerequisite for all majors, and for non-majors satisfying a distribution requirement in political science.

There are four major study areas within the Department as follows: American government, comparative politics, international relations, and political theory. The *basic courses* in each of these divisions are, respectively, Political Science 21; Political Science 25; Political Science 26; and Political Science 28. Five of the nine courses required for a major in political science must be Political Science 11 or 11s and the four basic courses in the indicated divisions.

Rite majors are required to take Political Science 76 in their senior year.

All majors in political science are required to pass a comprehensive examination in political science. This examination will cover the discipline as a whole and will be written or oral or both written and oral as the Department may prescribe.

Honors Program. The honors program is designed to provide qualified students in political science with full opportunity for independent research and

writing. Candidates for honors in political science will take Political Science D77 and 78. A cumulative average of 9 is required for admission to the honors program.

Distribution Sequences. Non-majors satisfying a two- or three-course distribution requirement in political science will take Political Science 11 or 11s and any other course or courses in the Department. Non-majors not satisfying a distribution requirement in political science may elect any course in the Department.

11. Introduction to Political Science. An analytical treatment of the role of politics in human society. Attention will be given to the theoretical and historical bases of political institutions, the social roots of political behavior, and the characteristics of the political process. Three class meetings per week.

First semester. Professor Latham.

11s. Introduction to Political Science. Same description as above.

Second semester. Professor Latham.

21. American Government. An introduction to the major problems of American democracy; their political, economic and social implications and their historical evolution. Politics and administration in their relation to constitutional government, federalism, suffrage, governmental functions, etc. Four class meetings per week.

First semester. Professor Ziegler.

25. Politics and Society. An examination of how contemporary political systems influence, and are influenced by, changing social and economic conditions. Primary attention is given to politics in the three representative European countries: Great Britain, France, and the Soviet Union. The political aspects of such problems as the concentration of economic power, the growth of the Welfare State, the decline (or persistence) of class distinctions, the growth of bureaucratic influence are discussed in a comparative setting. Three class meetings per week.

First semester. Mr. Schloming.

26. World Politics. International conflict and cooperation in historical and contemporary perspective. The struggle for power, the search for order and the limits of each. Special attention will be given to the national perspectives and foreign policies of the United States, the Soviet Union, and China. Three class meetings per week.

Second semester. Professor Taubman.

27s. The Politics of the Soviet Bloc. Beginning with a study of the Soviet political models and a comparison of that model with the political systems

of other Communist states, the course will concentrate on the intra-bloc politics and international relations of the Communist bloc.

Second semester. Professor Taubman.

28. Political Theory from Hobbes to the Present. A study of some of the major writers who have dealt with questions of political practice and political morality in a systematic way. Three class meetings per week.

Second semester. Professor Kateb.

31. Political Parties. An analysis of the place of the political party in the modern political system. Primary emphasis is given to party as a factor in defining the character of the political regime: party as a reflector and modifier of legal institutions; the effect of party on voting and legislative behavior; the relations among parties, bureaucracy, and outside groups; the economic and social consequences of party structure. The principal focus will be on American politics, but comparative materials will also be drawn from European and non-Western countries. In election years, classroom work will be supplemented by participation in a political campaign. Three class meetings per week.

First semester. Professor Arkes.

32. Urban Politics. The city as a distinct theater of politics. Attention will be given to political machines, minority groups, the linkage between local and national politics, and selected policy problems.

Admission with the consent of the instructor. Second semester. Professor Arkes.

33s. Public Opinion. An exploration of public opinion in its distinctly political aspects: public opinion as regulating the scope of the political system; the relation between opinion and authority; the tests and contents which make some opinions more justified in ruling. Attention will be devoted to the measurement of opinion; the influence of demographic factors; the impact of small groups, the media, and voluntary associations. Opinion surveys will be combined with writings on political theory; and there will be some consideration also of the empirical commitments which may arise from using the language of "public opinion" and "public interest" in political discourse. Classroom work plus participation in the design, administration, and analysis of an opinion survey. Three class meetings per week.

Second semester. Professor Arkes.

41. American Constitutional Development. The development of American constitutional philosophy since 1787 under three general heads: the Agrarian Constitution, the Laissez-Faire Constitution, and the Welfare Constitution. Topics will include the Marshall and Taney eras, constitutional problems of slavery, the Civil War and Reconstruction, the constitutional foundations of 19th century capitalism, constitutional problems of federal and state regulation, civil liberties in the 20th century, the constitutional

crisis of 1935–1937, and current problems of constitutional interpretation. Attention will be given to the judicial philosophies of the Federalist and Jacksonian judges, Field, Miller, Waite, Harlan, Holmes, Brandeis, Stone, Black, and Frankfurter. Three class meetings per week.

First semester. Professor Latham.

42. Administrative Law. An introduction to the American system of legal control exercised by other law administering agencies than the courts, with special reference to doctrines developed by the Interstate Commerce Commission, Securities and Exchange Commission, Federal Trade Commission, and the National Labor Relations Board. The course deals with the formulation of legislative purposes and administrative policies; administrative and judicial responsibilities for the enforcement of agency programs; and the nature and extent of judicial control over administrative action. Three class meetings per week.

Limited to 25 students. Second semester. Omitted 1969–70. Professor Ziegler.

43. Bureaucracy and Modern Society. Bureaucracy as the center of the problem of politics in modern society. Topics will include bureaucracy as a system of domination; the social preconditions and consequences of bureaucratization; the relation of administrative agencies to interest groups and political parties; and the administrative structure as a reflection of the culture and the political regime. Case studies on American bureaucracy will be used as a basis for cross-national comparisons. The inquiry will respond to the concerns about bureaucratic power and social organizations which have been raised by such writers as Marx, Weber, Tocqueville, and Gandhi, as well as contemporary social scientists. Three class meetings per week.

First semester. Professor Arkes.

44. Politics in Developing Nations. An examination of the role of politics in the process of modernization in the developing nations of Africa, Asia and Latin America. Particular attention is given to such topics as the fragmenting and integrating influences of nationalism, the strengths and weaknesses of the single party system, the appeals of communism, the role of the military, the sources of stability and revolution, the problems of managing economic development. Three class meetings per week.

Second semester. Mr. Schloming.

46. International Law. The historical basis and present trends in the development of international law will be discussed and related to the social, economic, and political aspects of present day world politics and government. Four class meetings per week.

Second semester. Professor Ziegler.

48. American Political Thought. A study of some of the major political ideas which have been formulated in response to American conditions from

colonial times to the present. Connections with European thought will also be discussed. Three class meetings per week.

Second semester. Professor Kateb.

49. Political Theory from Plato to Machiavelli. A study of some of the major writers who have dealt with questions of political practice and political morality in a systematic way. Readings and discussion. Three class meetings per week.

First semester. Omitted 1969–70.

52. Problems in Public Policy and Administration. Selected topics in public policy and administration. Conference course.

Limited to twenty-five students with the consent of the instructor. Second semester. Omitted 1969–70. Professor Latham.

54. Problems of Political Change and Political Order. The political means for managing major processes of change in contemporary societies are examined in a comparative perspective. Intensive study of a single broad topic, varying from year to year. Representative topics are: politics and economic growth; pluralism and authoritarianism in new nations; technocracy and political responsibility; the future of the "domesticated" Communist parties of Western Europe. Conference Course.

Limited to fifteen students, with the consent of the instructor. Second semester. Mr. Schloming.

57. Problems of International Politics. Communism, revolution, and intervention.

Admission with the consent of the instructor. First semester. Professor Taubman.

59. Contemporary Political Thought. A study of some of the major writers who have tried to come to terms with the political features of modernity. Among those read are the radical romantics; the existentialists; the inheritors of Marx and Freud; and the positivists and their enemies. Conference course.

Admission with the consent of the instructor. First semester. Professor Kateb.

76. Senior Rite Seminar.

Second semester. Professor Latham.

D77–78. Honors Course. Double course, full course: totaling three full courses.

Elective for Seniors who have satisfed the necessary requirements. First and second semesters. The Department.

97, 98. Special Topics.

First and second semesters.

Problems of Inquiry. See page 61.

PSYCHOLOGY

Professors Coplin and Koester (Chairman); Associate Professors Grose and Olver; Assistant Professors Robinson and Schneider.

Major Progam. Students majoring in psychology are required to elect eight full courses in psychology or closely allied fields. No more than one or two courses may be taken in allied fields. Psychology 11 should be elected no later than the sophomore year by students who plan to major in psychology.

A comprehensive examination is given to all majors during the second semester of the senior year.

Honors Program. Honors work consists of conducting a research project and taking an oral examination based upon a written thesis. Students begin this work by electing Psychology 68 during the second semester of the junior year and Psychology 77 and 78 during the senior year.

Distribution Sequences. The distribution requirement in the social science division may be satisfied in psychology by the election of Psychology 11 and any course in the department with the exception of Psychology 23, 29, and 30.

11. Introduction to Psychology. An introduction to the nature of psychological inquiry with emphasis upon major determinants of psychological phenomena. Lectures and section meetings.

Elective for Freshmen. First semester. Professor Koester.

11s. Introduction to Psychology. Same course description as Psychology 11.

Elective for Freshmen. Second semester. Professor Robinson.

20. Experimental Social Psychology. A social psychological analysis of individual and group behavior with emphasis on recent theories and experimental approaches to selected theoretical issues. Class meetings and scheduled laboratories.

Requisite: Psychology 11 or, for Juniors, the permission of the instructor. Elective for Freshmen. Second semester. Professor Schneider.

21. Personality. A survey of the theoretical and experimental literature of personality analysis. Emphasis is on the use of psychometric tests as research devices in the testing of personality theory.

Requisite: Psychology 11. Elective for Sophomores. Limited to twenty-five students. First semester. Professor Schneider.

22f. Perception. A study of the environmental variables and underlying physiological processes which determine basic properties of human perception.

Requisite: Psychology 11. Elective for Sophomores. First semester. Omitted 1969–70. Professor Robinson.

23. Research Design and Quantitative Methods. A study of psychological research procedures and quantitative methods, especially statistical procedures, that are used in the analysis and interpretation of findings obtained by means of experimental and empirical methods.

Requisite: Psychology 11. Elective for Sophomores. First semester. Professor Schneider.

24. Cognition. A study of cognitive processes with emphasis upon the techniques by which man represents his world and the consequences of representation for behavior.

Requisite: Psychology 11. Elective for Freshmen. Second semester. Professor Olver.

25. Learning and Behavior Theory. A study of principles of learning with emphasis on current research and theoretical formulations. Class meetings and laboratory sessions.

Requisite: Psychology 11. Elective for Sophomores. First semester. Professor Robinson.

26. Physiological Psychology. Selected topics concerned with biological correlates of psychological functions.

Requisite: Psychology 11 or, for Juniors, the permission of the instructor. Elective for Freshmen. Second semester. Professor Robinson.

27. Developmental Psychology. A study of human development with emphasis upon the general characteristics of various stages of development from birth to adolescence and upon general determinants of the developmental process.

Requisite: Psychology 11. Elective for Sophomores. First semester. Professor Olver.

28f. Abnormal Psychology. A study of the etiology and psychodynamics of psychological deviance with a focus on the psychological diagnosis and psychotherapy of the behavior disorders.

Requisite: Psychology 11. Elective for Sophomores. First semester. Professor Coplin.

29s. Human Sexuality. A study of the biological and psychological findings concerning the development and expression of sexuality.

Elective for Freshmen. Second semester. Professor Coplin.

30f. Viewpoints and Theory. A study of basic issues in psychological inquiry with emphasis upon those which pertain to systematic and theoretical formulations. Special attention will be given to the nature of explanation and theorizing in psychology.

Requisite: Psychology 11. Elective only for Senior majors in psychology. First semester. Professor Koester.

31s. Motivation. A study of motivational determinants of behavior phenomena.

Requisite: Psychology 11. Elective for Sophomores. Second semester. Omitted 1969–70. Professor Koester.

32. Introduction to Psychoanalytic Thought. A study of psychoanalytic attempts to provide a theoretical understanding of human personality.

Requisite: Psychology 11. Limited enrollment. Elective for Sophomores. Second semester. Professor Koester.

34. Educational Psychology. A psychological analysis of the educational process. The course is designed both for prospective teachers and for those who have a general interest in the field of education. One two-hour seminar a week.

Requisite: Psychology 11. Elective for Sophomores. Limited to fifteen students with the consent of the instructor. Second semester. Professor Grose.

41. Psychology Seminar. Members of the department will occasionally offer seminars designed to give the student an opportunity to study a selected topic in depth. Topic: Psycholinguistics.

Requisite: Psychology 11. Elective for Sophomores with the consent of the instructor. First semester. Professor Olver.

42. Psychology Seminar. Same type of course as Psychology 41. Topic: Humanistic Psychology.

Requisite: Psychology 11. Elective for Sophomores with the consent of the instructor. Second semester. Professor Koester.

68. Junior Tutorial Course. Exploration of a problem area in psychology leading to the preparation of a senior honors research project.

Requisite: Four courses in psychology including Psychology 23. Required of junior majors who plan to do honors work in their senior year and open only to those students who have received departmental approval. Second semester.

77, 78 or D78. Senior Honors Course. Elective for senior majors in psychology who have received departmental approval. First and second semesters.

97, H97; 98, H98. Independent Study or Research. This course is open to qualified students who desire to engage in independent reading on selected topics or conduct research projects. Preference will be given to those students who have done good work in one or more departmental courses beyond the introductory level. A full course or a half course.

Elective for Juniors with the consent of the instructor. First and second semesters.

RELIGION

Professors B. Morgan and Pemberton and Visiting Professor Husaini; Associate Professor Mudge.

Major Program. Majors in Religion are required to take Problems of Inquiry 1, Religion 11, Introduction to Religion, and seven additional semester courses in Religion or related studies approved by the Department.

All majors are required, early in the second semester of the senior year, to take the comprehensive examination in Religion which will deal with the history and phenomenology of religious traditions, and selected topics from the fields of Bible, religious ethics, historical theology and philosophy of religion. Further information may be obtained from the members of the Department.

Honors Program. Honors in Religion shall consist of Religion 75 Methodology in the Study of Religion, and the conference course, Religion 77, 78, taken in conjunction with a major in Religion (six additional semester courses are required for honors majors); satisfactory fulfillment of the general honors requirements of the College; satisfactory performance in the written comprehensive examination; and the satisfactory preparation and oral defense of a scholarly essay on a topic approved by the Department.

Distribution Sequences. Two-course sequences: Religion 11 and 16; Religion 13 and 14; Religion 11 and one of the following courses: Religion 14, 34, 35, or 37.

Three-course sequences: One of the above two-course sequences and an additional upper level religion course. With the permission of the Department, a course from another department may be included in a three-course sequence where it is relevant to a special program of study.

11. Introduction to Religion. A systematic examination of the phenomenology of religion, its social, cultural, psychological, and personal ramifications, and the facts of similarity and diversity. Two case studies from Asian and Western settings. Four class hours per week.

Elective for Freshmen. First semester. Professors Morgan and Mudge.

13. The Old Testament. Foundations of the Hebrew-Christian tradition in the history, literature, and thought of the Old Testament. Emphasis is placed both on the biblical materials themselves and on the varying methodologies of contemporary Old Testament interpretation. Three class hours per week.

Elective for Freshmen. First semester. Professor Mudge.

14. The New Testament. Foundations of the Christian tradition in the history, literature, and thought of the New Testament. Emphasis is placed both

on the biblical materials themselves and the varying methodologies of contemporary New Testament interpretation. Three class hours per week.

Requisite: Religion 13 or consent of the instructor. Elective for Freshmen. Second semester. Professor Mudge.

16. The Western Religious Tradition. An examination of the development of Jewish and Christian thought from the Talmud and the Church Fathers to the present. Readings will include selections from the Talmud, St. Augustine, Maimonides, St. Thomas Aquinas, Dante, the Reformers, and later Jewish and Christian writers. Four class hours per week.

Elective for Freshmen. Second semester. Professor Pemberton.

17. Introduction to Islam. A brief consideration of Arabia before Islam, followed by intensive study of the development of the tradition, including Muhammad, the Qur'an, the traditions of the Prophet, Islamic doctrine, the Shari'a, Orthodoxy and Heterodoxy, and Islamic Mysticism. Four class hours per week.

Requisite: Religion 11 or 13. First semester. Professor Husaini.

24. The Sociology of Religion (Colloquium). Theological and sociological perspectives on current religious issues. The contribution of the classical tradition in the sociology of religion. A consideration of secularization and the Christian-Marxist dialogue.

Requisite: Religion 11 or Sociology 11, or the consent of the instructors. Second semester. Professors Birnbaum and Mudge.

33. Philosophy of Religion. An examination of some basic religious concepts in the light of philosophical analysis. Among topics to be considered are the nature and status of religious knowledge, the existence and nature of God, and some religious views of human nature and conduct. Same course as Philosophy 33. Three class hours per week.

Requisite: Religion 16; or Philosophy 11 or 17; or consent of the instructor. Elective for Juniors. First semester. Professor Pemberton.

34. Religion in America. An examination of the intellectual and social history of religion in America, and its interaction with the changing cultural setting. Intensive study of black religion and its inter-action with the dominant religious structures. Same as American Studies 34. Three class hours per week.

Requisite: Religion 11 or consent of the instructor. Elective for Juniors. Second semester. Professor Morgan.

35. Contemporary Religious Thought. An analysis of selected nineteenth and twentieth century religious and secular writers whose thought reflects in criticism and constructive statement the "religious situation" in contemporary Western culture. The readings will be chosen from such writers as Dostoevski, Nietzsche, Kierkegaard, Feuerbach, Freud, Camus, Sartre, Mar-

cel, Buber, Bonhoeffer, Maritain, Dewey, Niebuhr and Tillich. Three class hours per week.

Requisite: Religion 11 or consent of the instructor. Elective for Juniors. First semester. Omitted 1969–70. Professor Pemberton.

37s. **Christian Social Ethics: Structure and Practice.** A critical study of ethical teaching and practice in the biblical and church tradition, and of their contribution to a constructive Christian ethic in such areas as power politics, economic life, the meaning of sexuality, the "crisis in communication," and the meaning of racial and cultural difference. Representative Roman Catholic and Protestant theologians. Three class hours per week.

Requisite: Religion 11 or consent of the instructor. Elective for Juniors. Second semester. Omitted 1969–70. Professor Morgan.

75. **Methodology in the Study of Religion.** At Amherst, required of and limited to candidates for honors in religion. Methods of interpreting religious phenomena. The relations and distinctions between studies in religion and other scholarly disciplines. Selected examples from various traditions. One meeting a week. The seminar will move from campus to campus throughout the term.

First semester. Professors John Pemberton (Amherst), William Shepherd (Smith), and J. Fiegenbaum (Mount Holyoke).

77. **Conference Course.** Required of candidates for honors in religion: Preparation and oral defense of a scholarly essay on a topic approved by the Department. Detailed outline of thesis and adequate bibliography for project required before Thanksgiving; preliminary version of substantial portion of thesis by end of semester.

Elective for Seniors with the consent of the instructors. First semester. The Department.

D78. **Conference Course.** Required of candidates for honors in religion: A continuation of Religion 77. A double course.

Elective for Seniors with the consent of the instructors. Second semester. The Department.

97. **Special Topics.** Independent Reading Course. Reading in an area selected by the student and approved in advance by a member of the Department. First semester. The Department.

98. **Special Topics.** Independent Reading Course. Same description as Religion 97. Second semester. The Department.

RUSSIAN

Assistant Professor Fischer and Visiting Assistant Professor Zelljadt; Mr. Peterson.

Major Program. The major must include the following courses: Russian 11, 12, 13, 14 plus four upper-level Russian courses offered in the department or at one of the neighboring colleges. (Russian 1 through 4 will not count toward the major.)

Since the major should, if at all possible, acquire some firsthand knowledge of Russian life and culture, he is strongly urged to spend a summer in the Soviet Union as a participant in one of the study-travel programs currently being offered by a number of American universities and colleges. It is also recommended that the major take History 41–42 (Survey of Russian History).

The major in Russian will take a comprehensive examination during the second semester of his senior year. A reading list will be provided to guide him in preparing for the examination.

Honors Program. In addition to the requirements for the major program, the honors candidate must take Russian 77–78 during his senior year and must prepare a thesis on a topic approved by the Department.

Distribution Sequences. Two-course requirement: Russian 13–14 or Russian 11–12 (for the student who has taken Russian 3–4 or its equivalent).

Three-course requirement: Russian 13–14 plus one course in Russian literature in which the reading may be done in English.

1. First-Year Russian. Grammar, pronunciation, oral practice. Five hours per week in class. In addition students will be required to use the language laboratory.

Elective for Freshmen. First semester. Professor Fischer.

2. First-Year Russian. Continuation of Russian 1.

Requisite: Russian 1 or equivalent. Elective for Freshmen. Second semester. Professor Fischer.

3. Second-Year Russian. Intensive review and further study of grammar. Emphasis on development of aural comprehension and oral fluency. Reading and analysis of selected texts. Five class hours per week. In addition, students will be required to use the language laboratory.

Requisite: Russian 2, or equivalent. Elective for Freshmen. First semester. Professor Fischer.

4. Second-Year Russian. Continuation of Russian 3. N.B. Students who are taking Russian to fulfill their language requirement and to acquire a reading proficiency in the language will be expected to read and translate Russian texts in their field of special interest.

Requisite: Russian 3, or equivalent. Elective for Freshmen. Second semester. Professor Fischer.

11. Third-Year Russian. Reading and discussion of texts taken from classical and Soviet literature as well as history and current journals. Practice in writing. Four hours a week; one laboratory hour.

Requisite: Russian 4, or equivalent. First semester. Professor Zelljadt.

12. Third-Year Russian. Continuation of Russian 11.
Requisite: Russian 11. Second semester. Professor Zelljadt.

13. Survey of Russian Literature, Part I. An intensive chronological study of the development of Russian prose fiction from the seventeenth-century secular tale to the realistic novels of Turgenev and Goncharov. Discussions of special topics include travel narratives, the verse-novel, story cycles, the picaresque and the grotesque. All readings in English. Two class sessions per week.
Elective for Freshmen. First semester. Mr. Peterson.

14. Survey of Russian Literature, Part II. Prose fiction from Dostoevsky and Tolstoy to Nabokov and Tertz (Sinyavsky). With stress on continuities through the Soviet period, discussions will focus on utopias and dystopias, romantic realism, the epic novel, Symbolist fiction and the fantastic tale. All readings in English. Two class sessions per week.
Elective for Freshmen. Second semester. Mr. Peterson.

21. Russian Literature of the Soviet Period. On the basis of representative literary works, the course will examine the impact of the Revolution on literature, literary trends and polemics of the 1920's, the effects of politically imposed dogma ("Socialist Realism"), and the post-Stalinist revival of prose and poetry (Pasternak, Bulgakov, Solzhenitsyn, Voznesensky, Evtushenko). Readings in translation or in the original, depending on language proficiency. Two class sessions per week.
Elective for Freshmen. First semester. Professor Fischer.

28. Seminar on One Major Russian Writer. The topic in 1969–70 will be Pushkin. All readings in Russian. The seminar will meet once a week.
Second semester. Professor Fischer.

77. Senior Honors Course. Meetings to be arranged.
Open to, and required of, seniors writing a thesis. First semester. The Department.

78. Senior Honors Course. Meetings to be arranged.
Open to, and required of, seniors writing a thesis. Second semester. The Department.

Sociology. See page 69.

SPANISH

Professors Cannon (Chairman) and Johnson; Assistant Professor Kent; Mrs. MacLeod and assistants.

Major Program. The student majoring in Spanish must elect Spanish 21 and 22 and the equivalent of six other semester courses (exclusive of Spanish 1 and 5) offered or approved by the Department. In addition, he must elect a minimum of three courses in another literature (English, French, etc.) and demonstrate a proficiency in spoken and written Spanish. He must also pass a comprehensive examination given by the Department in January of his senior year. A maximum of two half courses may be credited toward the major.

Honors Program. Same as above, except that the candidate for honors must elect in addition Spanish 77 and Spanish D78.

Combined Majors. Both *rite* and honors majors may be taken in combination with other fields, e.g. Spanish and French, Spanish and Religion, Spanish and Fine Arts. Plans for such combined majors must be approved in advance by representatives of the departments concerned.

Study Abroad. Students majoring in Spanish are encouraged to spend a summer, a semester, or a year studying in Spain or Spanish America. Plans for study abroad must be approved in advance by the Department.

Distribution Sequences. The distribution requirement may be satisfied in Spanish by electing Spanish 11 and any one or two other courses in the Department (exclusive of Spanish 1 and 5), or by proposing some other sequence and securing approval of it from the Department. With the approval of the Department, a course from another department may be included in a three-course sequence where it is relevant to a special program of study.

1. Elementary Spanish. For students who have had no previous study of Spanish or whose CEEB scores in Spanish are under 400. Seven hours a week in class, section, and laboratory.

First semester. Professor Johnson.

5. Intermediate Spanish. For students who have completed Spanish 1 or whose CEEB scores range from approximately 400 to 500. Six hours a week in class, section, and laboratory.

First semester. Mrs. MacLeod.

5s. Intermediate Spanish. Same description as Spanish 5.

Second semester. Professor Johnson.

11. Introduction to Hispanic Literature. Readings in modern Spanish and Spanish American literature.

Requisite: Spanish 5, or scores above 500 on the CEEB tests, or permission of the instructor. First semester. Professor Cannon.

11s. Introduction to Hispanic Literature. Same description as Spanish 11.

Second semester. Omitted 1969–70.

H14. Spanish Prose Composition and Style. This course is designed to strengthen and refine the student's mastery of the Spanish language. Practice in free composition and in translation of examples of a variety of styles. One hour of classroom work per week. A half course.

Requisite: Spanish 11, or permission of the instructor. Second semester. Professor Johnson.

21s. El Problema de España. The special circumstances of Spanish literature and the problems of Spanish historical and aesthetic integration into Europe. The development of a Spanish consciousness as expressed in major literary works from the Middle Ages to the present day. Conducted in Spanish.

Requisite: Spanish 11, or permission of the instructor. Second semester. Professor Cannon.

22f. Spanish America. An introductory course. Readings in literature of the Precolumbian and Colonial periods, and of the 19th and 20th centuries. Emphasis on the search for identity. Close study of selected essays, plays, novels, and poems. Conducted in Spanish.

Requisite: Spanish 11 or permission of the instructor. First semester. Professor Johnson.

27. Minority Expression and Racial Identity in Latin American Literature. An examination of a variety of topics, according to student interest, such as the development of an Afro-Antillean poetry, the literary expression of the black experience in Argentina, the achievement of a Puerto Rican consciousness, and the plight of the Indian in Mexico, Guatemala, and Bolivia. Students with a reading knowledge of Portuguese may give special attention to similar problems expressed in Brazilian and Afro-Portuguese literature. The work of the instructor will be supplemented by a number of guest lecturers.

Requisite: Reading knowledge of Spanish. First semester. Professor Kent.

41s. Problems in Spanish American Literature. In 1969, novels by such contemporaries as Carpentier, García Márquez, Vargas Llosa and Carlos Fuentes will be read in the original and discussed. Conducted in Spanish. May be repeated for credit.

Requisite: Spanish 21, 22, or permission of the instructor. Second semester. Professor Johnson.

42. The Spanish Ballad in Oral Literature. A close study of the *romancero* in conjunction with other traditional forms of Spanish expression. Special attention will be given to comparison with the English ballad. Conducted in Spanish.

Requisite: Spanish 21, or permission of the instructor. Second semester. Professor Kent.

43. Cervantes. *Don Quijote de la Mancha,* some exemplary novels, and selections from the other major prose works of Cervantes will be read in the original. Conducted in Spanish.

Requisite: Spanish 21, or 22, or permission of the instructor. First semester. Professor Johnson.

44. The Mystical Tradition in Spanish Literature and Art. A study of the varieties and forms of mystical expression in Spanish culture. Emphasis on Santa Teresa de Jesús, San Juan de la Cruz, Fray Luis de León, San Ignacio de Loyola, El Greco, Zurbarán, and the *imagineros.* Conducted in English. Readings in the original or in translation, according to student ability.

Limited to 15 students, with permission of the instructor. Second semester. Omitted 1969–70. Professor Cannon.

47. The Myth and Literature of Imperial Spain. The response of literature to the historical and social conditions of Hapsburg Spain. Selected works of Fray Luis, Quevedo, Lope, Góngora and others will be discussed as individual solutions to the dilemmas of the "Golden Age." Conducted in Spanish.

Requisite: Spanish 21 or 22, or permission of the instructor. First semester. Professor Kent.

77. Conference Course for Seniors. Preparation of an honors thesis. The Department.

D78. Conference Course for Seniors. A double course. Preparation of an honors thesis. The Department.

97, H97, 98, H98. Special Topics. The Department.

Interdisciplinary and Special Programs

ASIAN AND AFRICAN STUDIES

The following regular Amherst College courses are included in Asian and African Studies: Anthropology 12 and 21; Economics 36; History 51, 52, 54, and 76; and Political Science 44.

A number of courses are offered at neighboring institutions. The number of these has, in recent years, become too large to list here in full. Therefore, interested students are referred to a separate printed list of the many Asian and African courses available in the four-college area during the academic year 1969–70. This list is available from faculty members in the social sciences or in the offices of the Registrar and the Dean of the Faculty

A general statement on four-college courses will be found on page 55 of this Bulletin. A complete list of course descriptions and enrollment information may be obtained from the Registrar.

COLLOQUIA

24. The Sociology of Religion. Theological and sociological perspectives on current religious issues. The contribution of the classical tradition in the sociology of religion. A consideration of secularization and the Christian-Marxist dialogue.

Requisite: Sociology 11 or Religion 11 or consent of the instructors. Second semester. Professors Birnbaum and Mudge.

36. Ancient and Modern Literature. The readings are chosen to illustrate some of the resources of the literary imagination and something of the variety of human concerns which writers have entrusted to books.

The class, which if necessary will be divided into two sections, will meet with both instructors for discussion once a week for two hours. Perhaps once a month, and at the beginning of the course more frequently, a student will be expected to submit a journal or commonplace book in which he has recorded a critical appraisal of his reading together with other observations.

Limited to thirty students. Elective for Juniors with the consent of the instructors. (Not available for students who have elected Classics 25s in 1968–69). Second semester. Professors J. Moore and Epstein.

EDUCATION

Associate Professors Grose, Heath and Olver; Mr. Clark.

The following courses offered by the several departments are listed for the convenience of students who are interested in education and teaching. Students seeking to be certified for public school teaching positions should consult the separate materials in the Registrar's Office concerning courses available at the Five Colleges and State certification requirements.

Developmental Psychology. Same course as Psychology 27.
Requisite: Psychology 11. Elective for Sophomores. First semester. Professor Olver.

Educational Psychology. Same course as Psychology 34.
Requisite: Psychology 11. Elective for Sophomores. Seminar course limited to fifteen students with the consent of the instructor. Second semester. Professor Grose.

Seminar in American Educational History. Same course as History 66.
Limited to fifteen students. Second semester. Mr. Clark.

English and Education. Same course as English 75s.
Seminar limited to fifteen students. Elective for Juniors. Second semester. Professor Heath.

HISTORY OF SCIENCE

History of Science is offered under a Four-College program. Different courses are offered on the respective campuses and are rotated from year to year. A list of specific courses will be found at the Office of the Registrar.

INTERDEPARTMENTAL COURSES

Composition. Same course as English 23.
Limited to twenty students. Elective for Juniors. First semester. Professor Craig.

Tragedy. Same course as English 70.

Elective for Sophomores, or for Freshmen with the consent of the instructor. Second semester. Omitted 1969–70. Professor DeMott.

Topics in the Novel. Same course as English 74.

Elective for Sophomores, or for Freshmen with the consent of the instructor. Second semester. Professor Cameron.

Geochemistry. Same course as Geology 36.

Requisite: Geology 21 and 24, Chemistry 32, or permission of the instructors. Second semester. Professor Kuntz and others.

LATIN AMERICAN STUDIES

A list of courses has been compiled as an aid to students in the Five-College area seeking programs on Latin America or with Latin American content, containing both general courses which embody topics dealing with Latin America as well as courses devoted substantially or exclusively to the area. The Spanish language is taught at Amherst and Mount Holyoke Colleges, and both Spanish and Portuguese are taught at Smith College and the University of Massachusetts. Mt. Holyoke offers an interdepartmental major in Latin American Studies, while Smith offers two programs in Hispanic-American Studies, one in literature and the second in fields other than literature. A Certificate Program in Latin American Studies will be available, subject to approval, at the University of Massachusetts.

The list of courses in Latin American Studies, complete descriptions of individual courses, and enrollment information may be obtained from the Registrar.

LEGAL STUDIES

Professors Havighurst, Latham, and Ziegler.

Foundations of English Law and the Constitution. Same course as History 39s. Origins of the English Constitution; Growth of Common Law; Evolution of Parliament; Development of Monarchy; selected topics in Constitutional Conflict since 1485. Lectures, discussion and individual projects.

Second semester. Professor Havighurst.

American Constitutional Development. Same course as Political Science 41. The development of American constitutional philosophy since 1787 under three general heads: The Agrarian Constitution, the Laissez-Faire Constitution, and the Welfare Constitution. Topics will include the Marshall and

Taney eras, constitutional problems of slavery, the Civil War and Reconstruction, the constitutional foundations of 19th century capitalism, constitutional problems of federal and state regulation, civil liberties in the 20th century, the constitutional crisis of 1935–1937, and current problems of constitutional interpretation. Attention will be given to the judicial philosophies of the Federalist and Jacksonian judges, Field, Miller, Waite, Harlan, Holmes, Brandeis, Stone, Black, and Frankfurter. Three class meetings per week.

First semester. Professor Latham.

Administrative Law. Same course as Political Science 42. An introduction to the American system of legal control exercised by other law administering agencies than the courts, with special reference to doctrines developed by the Interstate Commerce Commission, Securities and Exchange Commission, Federal Trade Commission, and the National Labor Relations Board. The course deals with the formulation of legislative purposes and administrative policies; administrative and judicial responsibilities for the enforcement of agency programs; and the nature and extent of judicial control over administrative action. Three class meeting per week.

Limited to 25 students. Second semester. Omitted 1969–70. Professor Ziegler.

International Law. Same course as Political Science 46. The historical basis and present trends in the development of international law will be discussed and related to the social, economic, and political aspects of present day world politics and government. Four class meetings per week.

Second semester. Professor Ziegler.

IV

LECTURESHIPS

HONORS

FELLOWSHIPS

PRIZES AND AWARDS

DEGREES CONFERRED

The Amherst Science Center

Lectureships

The Henry Ward Beecher Lectureship. This lectureship fund of $10,000 was founded by the late Frank L. Babbott, LL.D., of the Class of 1878, in honor of Henry Ward Beecher, of the Class of 1834. The incumbent is appointed biennially by the Faculty for supplementary lectures in the departments of history and the political, social, and economic sciences.

The Clyde Fitch Fund. A fund of $20,000 was established by Captain and Mrs. W. G. Fitch of New York in memory of their son, Clyde Fitch, of the Class of 1886. The income of this fund is to be used for the furtherance of the study of English literature and dramatic art and literature. The whole or part of this income is usually devoted to the remuneration of an eminent lecturer, who may also take a part in the regular instruction of the College.

The Victor S. Johnson Lectureship Fund. This fund, amounting to $29,446, was established in memory of Victor S. Johnson by his sons for the purpose of "bringing to the campus each year a stimulating individual worthy of the lecturer's purpose of serving the best tradition of the liberal arts and individual freedom."

The John Woodruff Simpson Lectureship. A fund now amounting to $210,500 was established in memory of John Woodruff Simpson, of the Class of 1871, by his wife and daughter. The income is to be used for fellowships and "to secure from time to time, from England, France or elsewhere, scholars for the purpose of delivering lectures or courses of instruction at Amherst College."

The George William and Kate Ellis Reynolds Lectureships. A fund of $150,000 established by the late George W. Reynolds of the Class of 1877 provides an annual income of approximately $10,000 which is divided into three equal parts to provide lectureships on Christ and Christianity, Science, and American Democracy.

The Willis D. Wood Fund. The income from this fund, established in memory of Willis D. Wood '94 and now amounting to $68,727, is used for the purpose of "bringing to the campus, for varying lengths of stay, persons in the field of religion to meet and talk with students and faculty about different aspects of the spiritual life."

Honors

THE PHI BETA KAPPA SOCIETY

Massachusetts Beta Chapter. The students elected to membership in this honor society are those of highest standing and are normally candidates for the degree with honors. A preliminary election of outstanding students occurs at the end of the first semester of Junior year; and further elections occur at the end of the first semester and at commencement time of Senior year. Membership is extended to about a tenth of the students in each class.

OFFICERS

President: Professor George A. Kateb
Vice-President: Professor John A. Cameron
Secretary-Treasurer: Professor Marc S. Silver
Undergraduate President: Harold Dash '70
Undergraduate Secretary-Treasurer: Steven M. Lobel '70

INITIATES

Class of 1970

Mitchell Graham Ash*
William Hubbard Baxter, III*
Clark Gomes Casseres*
Harold Dash*
Mark Winslow Davis*
Joseph Wayne Gordon*
David Alan Howard*
Allan Ames Inouye*
Hugh Getty Laurence*
Steven Mark Lobel*
James Paul Parakilas*
Jay Allen Reich*
Thomas Zachary Reicher*
Andrew Barnett Sims*
Joseph Mallory Strayhorn, Jr.*
William Thomas Vetterling*

Class of 1969

Jeffrey Bruce Abramson
Dennis Aftergut
David Edwin Altschul*
Frederick David Baron
Richard Lawrence Berlin
Charles Everett Breed
Robert Horatio Brown, Jr.
Coleman Hampton Casey
Donald Adams Colburn
Howard Conn
James Vernon Dick
Robert Jeffrey Dwyer
James Russell English, III
Andrew Claypoole Eustis
Jack Mark Fishaut
Jeffrey Dorrington Fisher
Peter Kimball Flaccus
Gary Paul Forester
Michael Dennis Garrett
William Edward Glassman
Dwight Emmanuel Golann
Richard Harrington Gregory, III
Timothy Steiner Hardy
Sherwood Harrington
David Arthur Heinlein

* These students elected in their junior year

Eric Putnam Henry*
David James Hills
Robert Wayne Ihne
Paul Andrew Johnson
Kent Leonard Jones
Jared Daniel Kass
Daniel Whittemore Keller
Robert David Klugman
David Ernst Laurence
Philip Joshua Lawrence
Jürgen Wilhelm Liias
Richard Levis McCormick*
James Hollingsworth Maier
Robert Andrew Marblestone
Donald John Mastronarde
William Lee Meadow
David Thornton Moore
Alexander Gordon Murray
Andrew Zygmunt Nagorski
Joseph Francis Quinn, Jr.
David Sherman Rea
David Hall Roberts
Michael Meabon Schaeffer
Joseph Henry Sellin
Kent Thompson Stauffer
Jonathan Ralph Steinhart
Douglas Wyatt Sterner
Sang Mok Suh
Peter Susi
William Gregory Thalmann, III
Loran Tyson Thompson
Bruce Gordon Wallace
Michael Stuart Wayne
Morrison DeSoto Webb
Jon Ruston Weissman
Scott Ormsbee Wilson
Edwin Mershon Wolf

* These students elected in their junior year

THE SOCIETY OF THE SIGMA XI

Sigma Xi, the National Honorary Scientific Research Society, was founded in 1886; the Amherst Chapter was installed March 23, 1950. As one of its purposes the Society gives recognition to those students, members of the faculty, research associates, and alumni who have demonstrated ability to carry on constructive scientific research or who show definite promise of research ability. Other functions are the maintenance of companionship among investigators in the various fields of science, the holding of meetings for the discussion of scientific subjects, and the fostering of an interest in scientific research in the College.

Undergraduates, masters candidates, and others who show definite promise of research ability are typically recommended to associate membership by the departments concerned. In the case of undergraduates, nomination is usually given only to those students whose promise of research ability would warrant recommendation for at least a degree *magna cum laude* (entirely aside from the question of grades).† At present the chapter has a total membership of some 100 faculty and students.

OFFICERS

President: Professor Dudley H. Towne
Vice-President: Professor James Q. Denton
Secretary-Treasurer: Professor Charles H. Ellis, Jr.

† Full membership is reserved for individuals who have already published at least one scholarly paper.

AMHERST COLLEGE

INITIATES 1969

Robert Horatio Brown, Jr.
Charles Anthony Castle
Howard Conn
James Russell English, III
Andrew Claypoole Eustis
William Edward Glassman
Donald Frank Ives
Paul Andrew Johnson
John DeWald Lipscomb
William Joseph Mann, Jr.
John Anders McDowell
James Meyer, Jr.
David Hall Roberts
Brian Blackburn Spear
Charles Maris Tatum, Jr.
Jonathan Marvin Tobis
Howard Michael Uman
Edwin Mershon Wolf

THE BOND FIFTEEN

From the fifteen Seniors who have attained the highest general standing at the end of the first semester of senior year, two speakers are selected upon the basis of literary and orational merit to deliver orations during Commencement Week End. The Bond Prize of one hundred dollars, given by Ephraim W. Bond of the Class of 1841, is awarded to the speaker who delivers the best oration.

THE BOND FIFTEEN 1969

Jeffrey Bruce Abramson
David Edwin Altschul
Richard Lawrence Berlin
Coleman Hampton Casey
Jack Mark Fishaut
David James Hills
Robert Wayne Ihne
Kent Leonard Jones
Daniel Whittemore Keller
Robert David Klugman
Donald John Mastronarde
Richard Levis McCormick
William Gregory Thalmann, III
Bruce Gordon Wallace
Michael Stuart Wayne

Fellowships

THE College's funds for fellowships aggregate $849,487. From the income of these funds fellowships are awarded annually to graduates of Amherst College for study in graduate or professional schools. Applications should be made before February 15 on forms available from the Dean of the Faculty.

The names of those to whom fellowships have been awarded for the current year will be found on pages 19–21.

The Amherst-Doshisha Fellowship. Amherst-Doshisha Fellowship at Amherst House, Doshisha University, Kyoto, Japan. An opportunity to work in a bi-cultural setting with Professor Otis Cary, Director of Amherst House, is open to young alumni of the College for a term of one, or in some cases, two years. Travel expenses and a modest stipend are paid by the College. The recipient will be given the opportunity of assisting Otis Cary in the activities of Amherst House and also in teaching English to Japanese students. No knowledge of Japanese is required.

The fellowship offers a stipend of $1,800, a travel allowance of $1,400, and incidental expenses of $250. Preferably the fellowship year would be from September of one year to the following August. It carries with it formal teaching responsibilities in the English language at Doshisha University, at the freshman and sophomore level. The academic year at Doshisha has allowed all fellows to make an extended trip through South East Asia during February and March.

Applicants should apply to the President of the College, with a view to having a decision in mid-February.

The Amherst Memorial Fellowships for the Study of Social, Economic, and Political Institutions, and for Preparation for Teaching and the Ministry. A fund of $135,800 provides fellowships to perpetuate the memory of those Amherst men who gave their lives for an ideal. The following statement expresses the purposes of the donor of these fellowships: "Realizing the need for better understanding and more complete adjustment between men and existing social, economic, and political institutions, it is my desire to establish a fellowship for the study of the principles underlying these human relationships."

Appointments to these fellowships may be made from the graduating class or the alumni of Amherst College or of other colleges, the object being to permit men of character, scholarly promise, and intellectual curiosity to investigate some problem in the humanistic sciences. Candidates should be men of sound health. During previous training they should have

given evidence of marked mental ability in some branch of the social sciences—history, economics, political science—and have given promise of original contribution to a particular field of study. It is desirable that they possess qualities of leadership, a spirit of service, and an intention to devote their efforts to the betterment of social conditions through teaching in its broad sense, journalism, politics, or field work.

While preference is given to candidates planning to do advanced work in the field of the social sciences, applications will be accepted and awards made to candidates who are planning to go to theological school as a preparation for a career in the ministry and to those from other fields than the social sciences who are preparing for a career in teaching in secondary schools or colleges.

Appointments may be made for terms of two years. Tenure may, however, be shorter or longer, depending upon the nature of the subjects investigated or upon other circumstances which, in the judgment of the committee, warrant a variation in the length of tenure.

The stipend will vary according to the circumstances of the appointment. Awards will depend upon those aspects of individual cases which, in the judgment of the committee, most suitably fulfill the purpose of the foundation.

These fellowships will be awarded by the Board of Trustees upon the recommendation of the Faculty Fellowship Committee.

The Henry P. Field Fellowships. Two fellowships of $500 each are available from the income of the bequest of the late Henry P. Field of the Class of 1880, to promote graduate study in the fields of English and History. Appointments are made annually by the College on the recommendation of the departments of English and History.

The Edward Hitchcock Fellowship. The income from a fund of $20,000 founded by the late Mrs. Frank L. Babbott of Brooklyn, N.Y., is available for the promotion of graduate study in the department of physical education. Its object is to make the student familiar with the best methods of physical training, both in the gymnasium and on the field. The appointment is made by the Faculty.

The Roswell Dwight Hitchcock Memorial Fellowship. A fund of $9,200, established through the agency of the Alpha Delta Phi Fraternity, provides an annual award under conditions determined by the Faculty, to a member of the senior class for excellence in history and the social and economic sciences. The holder of the Fellowship pursues for one year, at an institution approved by the Faculty, a course of study in history or economics, to be completed within the period of two years next following graduation. The amount of the Fellowship is paid in two installments, one on completion of one-half the year's work, the other at the end of the year.

The Rufus B. Kellogg University Fellowship. The income from a fund of $67,800 established by the late Rufus B. Kellogg of the Class of 1858 provides certain prizes, and a fellowship award for three years to an alumnus of Amherst College, who shall be appointed upon the following conditions:

1. He shall be elected by the Faculty from the members of the class graduated at the close of the academic year in which this election shall be made, or from the members of the classes graduated in the six years immediately preceding the academic year in which this election shall be made.

2. The Faculty shall select as the incumbent of the said Fellowship the man who, in their judgment, is best equipped for study and research, without regard to any other considerations whatsoever, except that he should have an especially good knowledge of at least one modern foreign language and should have had at least one year of Latin in preparatory school or college.

3. The three years shall be spent by the incumbent at a German University, or with the approval of the said Faculty at any other place or places, in the study of philosophy, philology, literature, history, political science, political economy, mathematics or natural science. At least one college term of the final year shall be spent by the incumbent at Amherst College, where he shall give a series of not more than thirty lectures on a subject selected by himself and approved by the Trustees. The lectures shall be given to the Senior class, but the members of all other classes shall have the privilege of attending. The incumbent shall have his lectures published, at the end of his official term, in good book form, or in a learned journal.

The Sterling P. Lamprecht Fellowship. From the income of $31,500, a fellowship is awarded to a recent graduate of Amherst College for assistance in the pursuit of philosophy. This fellowship may be awarded to the same man for a maximum of three years. It need not be awarded at all in one particular year, and it might be, if there were no suitable graduate, awarded to an undergraduate in which case it would be known as the Sterling P. Lamprecht Scholarship. Preference, however, would be given for graduate study.

The Edward Poole Lay Fellowship. The income from a fund of $47,500, established by Frank M. Lay, of the Class of 1893, and Mrs. Lay, in memory of their son Edward Poole Lay, of the Class of 1922, provides for a fellowship to be awarded to a graduate of Amherst College who has shown unusual proficiency and talent in music, and who desires to continue his studies in this field. Preference is to be given to a candidate who is proficient in voice. In the event that there is no qualified candidate for the award in any one year in the musical arts (especially voice and instrumental

music), then it may be awarded under the same conditions to a qualified candidate in the field of the dramatic arts.

This fellowship will be awarded by the Board of Trustees upon the recommendation of the Faculty Fellowship Committee.

The Mayo-Smith Teaching Fellowship. This fellowship provides that a member of the graduating class interested in a career in education be named "Assistant to the Director of Admissions."

The Forris Jewett Moore Fellowships. These fellowships, three in number, were established in memory of Forris Jewett Moore of the Class of 1889 by his widow, Emma B. Moore. In each case, the beneficiary is to be a member of the graduating class of the year preceding that in which he holds the Fellowship.

1. A fund of $32,600, the income of which is to be used to assist some graduate of Amherst College who has distinguished himself in the study of chemistry while an undergraduate, and who desires to engage in further study of that subject. Preference is to be given to eligible candidates whose plans lie in the field of organic chemistry.
2. A fund of $24,200, the income of which is to be awarded to a graduate of Amherst College who has distinguished himself in the study of history while an undergraduate, and who desires to engage in further study of that subject.
3. A fund of $28,400, the income of which is to be awarded to a graduate of Amherst who has distinguished himself in the study of philosophy while an undergraduate and who desires to engage in further study of that subject.

The George Stebbins Moses Memorial Fellowship. The income from a memorial fund provides a fellowship to be awarded to an Amherst graduate each year who has been accepted by a recognized divinity school, who has good reason to seek financial aid, who seems to be an all-around man qualified in all respects as a religious and moral leader and a lover of ordinary people, and who is qualified scholastically to meet the calling of a theological career creditably. The candidate need not be an outstanding student, but improvement in the upperclass years, dedication, and a sense of purpose will be given great consideration.

The recipient will be selected by the Fellowship Committee acting with the Minister to the College and, ordinarily, will be awarded on an annual basis but, under appropriate circumstances, it may be renewed for a second or third year at the discretion of the Committee. If the income and needs of candidates permit, more than one fellowship may be awarded in any given year.

The George A. Plimpton Fellowships. These fellowships, established by the Board of Trustees of Amherst College in memory of George A. Plimpton of the Class of 1876, a member of the Board from 1890 to 1895 and from

1900 to 1936, and President of the Board from 1907 to 1936, are to be awarded without stipend to members of the senior class who are of outstanding scholastic ability and promise, who plan to continue their studies in graduate school, and who are not in need of financial assistance.

These fellowships will be awarded by the Board of Trustees upon recommendation of the Faculty Fellowship Committee.

The Charles B. Rugg Fellowship. The income from a fund of $25,900 established in memory of Charles Belcher Rugg, of the Class of 1911, provides a fellowship to be awarded to an Amherst graduate who shows promise for the study of law. The award is made annually to aid a young man beginning a legal career, but it may be renewed for a second or third year upon recommendation of the Fellowship Committee.

The John Woodruff Simpson Fellowships and Lectureships. A fund now amounting to $211,500 was established in memory of John Woodruff Simpson of the Class of 1871, by his wife and daughter. The uses of the income as defined by the donors follow:

"1. To award to any graduate of Amherst College a fellowship for use in studying law at any school approved by the Board of Trustees of the College;

"2. To award to any graduate of Amherst College a fellowship for use in studying medicine at any school approved by the Board of Trustees of the College;

"3. To award to any graduate of Amherst College a fellowship for use in studying theology at any school approved by the Board of Trustees of Amherst College, without regard to the particular creed or particular religious belief taught thereat;

"4. To award to any graduate of Amherst College a fellowship for use in studying at any school, college or university approved by the Board of Trustees of the College, in preparation for the teaching profession;

"5. To award to any graduate of Amherst College a fellowship for use in graduate study at the universities of Oxford or Cambridge in England;

"6. To award to any graduate of Amherst College a fellowship for use in graduate study at the Sorbonne in Paris;

"7. To secure from time to time from England, France or elsewhere, scholars for the purpose of delivering lectures or courses of instruction at Amherst College."

These fellowships will be awarded by the Board of Trustees upon the recommendation of the Faculty Fellowship Committee.

The Benjamin Goodall Symon, Jr. Memorial Fellowship. The income from a memorial fund provides a fellowship to be awarded to an Amherst graduate each year who has been accepted by a recognized divinity school, who has good reason to seek financial aid, who seems to be an all-around man qualified in all respects as a religious and moral leader, and who is qualified

scholastically to meet the calling of a theological career creditably, although he may plan to use the divinity school training for work in another field. The candidate need not be an outstanding student, but improvement in the upperclass years, dedication, and a sense of purpose will be given great consideration.

The recipient will be selected by the Fellowship Committee acting with the Minister to the College and, ordinarily, will be awarded on an annual basis but, under appropriate circumstances, it may be renewed for a second or third year at the discretion of the Committee. If the income and needs of candidates permit, more than one fellowship may be awarded in any given year.

The Roland Wood Fellowship. Awarded annually upon the recommendation of the Department of Dramatic Arts as a fellowship to one or more promising and deserving graduates of Amherst College for continued study in or of the theater.

Fellowships Awarded by the American Schools of Classical Studies at Athens and Rome. The attention of graduate students interested in the Classics and in Archaeology and Ancient Art is called to the opportunities offered by the American Schools of Classical Studies at Athens and Rome. As the College contributes regularly to the support of these schools, any Amherst graduate may enjoy the privileges of study at either school without charge for tuition and may compete for the annual fellowships which they offer. Further information may be obtained from any teacher of Classics at the College.

Prizes and Awards

THE following prizes are offered annually for proficiency in the work of the several departments of collegiate study, and for other qualifications. The recipients of awards for the previous year are named in each case.

AMERICAN STUDIES

The George Rogers Taylor Prize, to be awarded annually to the student enrolled in American Studies 12 who in the opinion of the American Studies Department shows most promise for creative and scholarly work in the field of American Studies. *John Harold McKeon, Jr., '71.*

ART

The Anna Baker Heap Prize, from the income of a fund of $2,000, established by the late Arnold N. Heap of the Class of 1873; $170 is awarded to that Senior who submits the best essay in the field of "Art." *No Award.*

The Athanasios Demetrios Skouras Prize of $80 is given annually by an anonymous donor in the memory of Athanasios Demetrios Skouras, of the Class of 1936, who died in 1943 in Athens, Greece, as a result of Nazi reprisal killings. The prize is given to a student who in the opinion of the Fine Arts Department has created an outstanding work of art or architecture or to a student who, in the opinion of the Music Department, was preeminent in music composition or rendition of a musical selection. Preference to be given in the fine arts. *Christopher Ellis Green, '70.*

BIOLOGY AND GEOLOGY

The Harvey Blodgett Scholarship, from the income of a fund of $2,800, established by Frederick H. Blodgett in memory of his grandfather, Harvey Blodgett of the Class of 1829, is awarded to aid student work in biology and geology in their educational phases as distinct from their more technical and strictly scientific phases. Combined with The Phi Delta Theta Scholarship and awarded to *Thomas Norris Brock, '70.*

The Phi Delta Theta (Sigma) Scholarship, from the income of a fund of $600, established by the Phi Delta Theta Fraternity, is awarded as a scholarship at the Woods Hole Marine Laboratory to a student for proficiency in biology. Combined with The Harvey Blodgett Scholarship and awarded to *Thomas Norris Brock, '70.*

AMHERST COLLEGE

The Oscar E. Schotté Prize, an award to be given to "that member of the graduating class who in the opinion of the Department has done the best independent work in Biology." *Paul Andrew Johnson, '69.*

The Oscar E. Schotté Scholarship is awarded annually to a member of the junior or senior class majoring in science to enable him to complete a special project during the summer months. *James Richard Thistlethwaite, Jr., '70.*

CHEMISTRY AND MEDICINE

The Howard Waters Doughty Prize, from the income of a fund of $1,200, given anonymously; $100 is awarded to that member of the senior class who, in the opinion of the chemistry department, has prepared the best honors thesis. *John DeWald Lipscomb, '69.*

The Frank Fowler Dow Prizes, part of the income from a fund established by Fayette B. Dow, '04, in memory of his father; $300 is awarded to a member or members of the junior or senior class preparing to enter medical school and whose undergraduate work indicates a career of usefulness and distinction in medicine. *Robert Horatio Brown, Jr., '69.*

DRAMATICS

The Raymond Keith Bryant Prize, an annual gift of $37 from Robert E. and Ethel M. Bryant in memory of their son, Raymond Keith Bryant, of the Class of 1936, is awarded to that undergraduate who, in the opinion of a board of judges, gives the best single performance of the year in a Masquers' play. *Stephen Weaver Collins, '69.*

ECONOMICS

The W. T. Akers, Jr. Prize of $50, provided by an annual gift from W. T. Akers, Jr., of the Class of 1927, is awarded to that undergraduate who has, in the opinion of the economics department, written and submitted the best honors essay in economics. *David Sherman Rea, '69.*

The Merrill Center Prize, a prize of $100 to be given to that member of the senior class who, in the opinion of the Economics Department, has written an honors thesis of distinction upon a subject related to capital formation and economic growth. *No Award.*

The Hamilton Prize, established by his former students in memory of Professor Walton Hale Hamilton, distinguished member of the Department of Economics from 1915 to 1923, consisting of a collection of economics books, is awarded to that student other than a senior who ranks highest in the introductory economics course. *Louis Alan Matis, '71.*

The Sylvester Award, supported by an annual gift from Albert L. Sylvester of the Class of 1924, goes to the junior majoring in economics, who has shown himself outstanding in his work in that Department while maintaining a worthy general average. If the recipient is already on the scholarship list, the award is $750; if not, the award is a prize of $100 and the remainder goes to Frost Library for the purchase of books in economics. *Clark Gomes Casseres, '70.*

ENGLISH

The Academy of American Poets Prize, of $100, made possible by a gift of Harry Woodbourne, is awarded annually for the best poem or group of poems, preferably on nature, submitted by an undergraduate. *Paul John Monk, '69.*

The Armstrong Prize, from the income of a fund of $2,700, established in part by Collin Armstrong of the Class of 1877 in memory of his mother Miriam Collin Armstrong, awarded in the form of books to the value of $110 to members of the freshman class who excel in composition. *Daniel Rick Wolpaw, '72.*

The Collin Armstrong Poetry Prize, from the income of a fund of $2,700, established in part by Mrs. Elizabeth H. Armstrong; $110 is awarded to the undergraduate author of the best original poem or group of poems. *John Arvid Anderson, '71.*

The Corbin Prize, from the income of a bequest of $1,000 established by the estate of William Lee Corbin of the Class of 1896; $90 is awarded for an outstanding original composition in the form of poetry or an informal essay. *Richard Merrill Moret, '69.*

The John Franklin Genung Prize, of $50, given each year anonymously in memory of Professor Genung, is awarded to that member of the junior or senior class who excels in prose composition. *John Arthur Taylor, III, '70.*

The Harry Richmond Hunter, Jr. Prize, from the income of a fund of $1,400, established by H. R. Hunter and Emma Louise Hunter in memory of their son, Harry Richmond Hunter, Jr. of the Class of 1929; $50 is awarded to that member of the sophomore class who presents the best essay on a topic approved by the English department. *Stephen Hugh Gunnels, '71.*

The Peter Burnett Howe Prize for excellence in prose fiction, established by a gift of Robert B. Howe of the Class of 1930 in memory of his son Peter Burnett Howe, '60. The prize is awarded to an undergraduate for excellence in prose fiction. *Joseph Mallory Strayhorn, Jr., '70.*

The Ralph Waldo Rice Prize, from the income of a fund of $1,800, established by Mrs. Mary Rice Jenkins in memory of her brother, Ralph Waldo Rice, of the Class of 1910; $160 is awarded for the best essay on "The Liberal College and Christian Citizenship" or any other subject named by the Faculty. *Morrison DeSoto Webb, '69.*

FRENCH

The Frederick King Turgeon Prize in French Literature. The income from a fund established by former students of Frederick King Turgeon, Professor of French at Amherst College (1926–1969), upon the occasion of his retirement is to be used for the annual award of a book to the student who, in the judgment of the Department of French, has done particularly distinguished work in French literature during the year. *No Award.*

GREEK

The William C. Collar Prize, from the income of a fund of $1,400 established by the late William C. Collar of the Class of 1859; $120 is awarded to the member of the freshman class who shall make on a written examination the best version in English of a previously unseen page from some Greek author. *Divided between Bruce Gardiner Aitken, '72 and Edward James Vairo, '72.*

The Hutchins Prize, from the income of a fund of $1,400, established by the late Waldo Hutchins of the Class of 1842; $120 is awarded to an upperclassman for excellence in Greek. The scholarship is determined chiefly by the regular recitations and examinations of the department but special studies and examinations may also be required of the candidates. *Divided between William Gregory Thalmann, III, '69 and Donald John Mastronarde, '69.*

The Harry DeForest Smith Scholarship is awarded to a member of the freshman class enrolled in one of the regular courses in the Department of Greek. The award is made on the basis of an examination given at the candidate's school in the March preceding his entrance to college. Students who have had either two or three years of Greek at school are eligible for this scholarship. The amount of the stipend is based on the financial need of the winner according to the regular scholarship procedures of the College. It is renewable after freshman year in accordance with the regular scholarship policy. In cases where there is no demonstrable financial need, the winner will receive an honorary $100 stipend for the first year. *Brian Francis Pollard, '72.*

JOURNALISM

The Samuel Bowles Prize, from the income of a fund of $4,200 established by the late Samuel Bowles King, '02; to stimulate interest in journalism as a career, a prize of $355 is awarded to a student of the junior or senior class who has demonstrated proficiency in journalism. The income may be used from time to time for a scholarship or toward a lectureship. *David Corcoran, '69.*

LATIN

The Bertram Prizes, from the income of a fund of $2,600, established by the late John Bertram of Salem; two prizes of $145 and $85 each are awarded to those students who, together with attaining a high average in the Latin courses of the senior year, present the best essays on some approved topic connected with these courses. First Prize: *Gene Michael O'Grady, '69.* Second Prize: *Edwin Theodore Holmes, '69.*

The Billings Prizes, from the income of a fund of $1,300, established by Frederick Billings in memory of Parmly Billings of the Class of 1884; two prizes of $75 and $35 are awarded for general excellence in the Latin courses of the sophomore year together with the best essays on special topics connected with the authors read in that year. First Prize: *Loring Mandell Danforth, '71.* Second Prize: *Jonathan O'Neill Heller, '71.*

The Crowell Prizes, from a fund of $2,300 in memory of Edward Payson Crowell of the Class of 1853; prizes of $70 and $30 are awarded for the highest scholarship in the freshman Latin courses; prizes of $70 and $30 are awarded to the students who, together with attaining a high average in the Latin courses of the junior year, present the best essays on some approved topic connected with the junior Latin course. Freshman Award: First Prize: *Edward James Vairo, '72;* Second Prize: *James Lawrence Butrica, '72.* Junior Award: First Prize: *Donald John Mastronarde, '69;* Second Prize: *Kenneth Trerise Martin, '70.*

MATHEMATICS, PHYSICS AND ASTRONOMY

The Bassett Physics Prizes, from the income of a fund of $4,620 established by Preston Rogers Bassett of the Class of 1913; two prizes up to $100 and $50 respectively may be awarded each year to those students who have distinguished themselves by the excellence and maturity of their performance in the class and laboratory work of the first course in Physics. First and Second Prizes combined and divided between *David Jeffrey Levenson, '72* and *Roger Wilmot Turton, '71.*

The Porter Prize, from the income of a fund of $600, established by the late Eleazer Porter of Hadley; a prize of $50 is awarded for proficiency in

first year astronomy. Divided between *Roger Wilmot Turton, '71* and *Dennis John Joseph Zaffetti, '71.*

The William Warren Stifler Prize, from the income of a fund of $1,000, created by the late Professor Stifler; $90 is awarded to a senior who has majored in physics and who is nominated by the teaching staff of the department for excellence in work in the courses of physics for the junior and senior years, with special weight in the course on electricity and magnetism. *David Hall Roberts, '69.*

The Walker Prizes, from the income of a fund of $6,000, given by the late William J. Walker of Newport, Rhode Island; two prizes of $180 and $90 are awarded for proficiency in mathematics of the first year, and two prizes of $180 and $90 for proficiency in mathematics of the second year. In each case the award is determined by an examination. First Year: First Prize, *James Linley Harding, '72;* Second Prize, *Douglas Clark Johnson, '72.* Second Year: First Prize, *Roger Wilmot Turton, '71;* Second Prize, *No Award.*

MUSIC

The Eric Edward Sundquist Prize, from the income of a fund established anonymously in memory of Eric Edward Sundquist of the Class of 1936; $70 is awarded annually to that senior who has demonstrated excellence in musical composition and performance. Divided among *Loran Tyson Thompson, '69, Emory Wallace Waters, '69* and *Scott Ormsbee Wilson, '69.*

PHILOSOPHY AND RELIGION

The Moseley Prizes, from the income of a fund of $7,700 established by the late Thomas W. H. Moseley of Hyde Park; two prizes of $450 and $230 are awarded to members of the senior class for the best essays on a subject pertaining to the study of religion. First Prize: *Gregory John Shaffer, '69;* Second Prize: *Richard Allan Aronson, '69.*

PHYSICAL EDUCATION

The Sawyer Prizes, from the income of a fund of $2,000, established by the late Edmund H. Sawyer, Hon. 1878; $175 is available for prizes for improvement in the department of Physical Education. Senior Class: *Nai-Theow Ong, '69.* Sophomore Class: *Simon Nchinda Fobi, '71.*

POLITICAL SCIENCE

The Densmore Berry Collins Prize in Political Science, of $50, given annually by Miss Margaret S. Densmore in memory of her nephew Densmore

Berry Collins, of the Class of 1940. The award will be made to the student submitting the best honors thesis in Political Science. *Kirk Howard Conover, '69.*

PUBLIC SPEAKING

The Bancroft Prizes, of $360 and $210, from the income of a fund of $6,500 established by the late Frederic Bancroft of the Class of 1882; awarded to the two members of the senior class who produce the best orations. Both composition and delivery are considered in making the awards. First Prize: *Michael Alan Greenberg, '69.* Second Prize: *Alan Mayer Blum, '69.*

The Bond Prizes, from the income of a fund of $2,400 established by the late Ephraim W. Bond of the Class of 1841; $165 and $55 are awarded for the best productions spoken at the Senior Chapel service. The awards are determined by a committee appointed by the Trustees upon nomination by the Faculty. *No Award.*

The Gilbert Prize of $100, from the income of a fund established by the late William O. Gilbert of the Class of 1890, is awarded to a member of the junior class who produces the best oration. Both composition and delivery are considered in making the award. *Robert Stuart Nathan, '70.*

The Hardy Prizes, from the income of a fund of $1,300, established by the late Alpheus Hardy of Boston; prizes of $75 and $35 are awarded for excellence in extemporaneous speaking. First Prize: *Robert Alan Cohen, '71.* Second Prize: *Edward Hofkin Merves, '71.*

The Kellogg Prizes, from part of the income of a fund of $54,500, established by the late Rufus B. Kellogg of the Class of 1858; two prizes of $70 and $50 are awarded to members of the sophomore or freshman classes for excellence in declamation. First Prize: *Brian Francis Pollard, '72.* Second Prize: *Edward Hofkin Merves, '71.*

The Rogers Prize, from the income of a fund of $1,400, given by Noah C. Rogers of the Class of 1880; $120 is awarded to a member of the junior class for excellence in debate. *No Award.*

SCHOLARSHIP AND CITIZENSHIP

The Borden Freshman Prize, from a fund established by the Borden Company, an award of $200 is made annually to that member of the freshman class who has achieved the highest average grade for all college work taken during the freshman year. Divided between *Corey Eliot Lerner, '71* and *Michael Peter Madow, '71.*

The Addison Brown Scholarship, from the income of a fund of $6,300, established by the late Addison Brown of the Class of 1852; $555 is awarded to that member of the senior class who, being already on the scholarship list, shall have attained the highest standing in the studies of the freshman, sophomore, and junior years. *Jeffrey Bruce Abramson, '69.*

The Samuel Walley Brown Scholarship, from the income of a fund of $6,300, established by the late Samuel Walley Brown of the Class of 1866; $555 is awarded to that member of the sophomore class who at the end of his sophomore year shall in the estimation of the Trustees rank highest in his class in character, class leadership, scholarship, and athletic ability. *James Nelson Kenworthy, '70.*

The Computer Center Prize of an Amherst College Chair is being awarded for the first time this year. For his outstanding contributions in the application of the computer to a broad range of academic disciplines, and for his generous help to many students and faculty at the Computer Center, the prize is awarded to *David James Hills, '69.*

The Friends of the Amherst College Library Prizes for Student Book Collections. The prizes are given for book collections which reflect a bibliophilic interest in books and a serious attempt to develop a personal collection of book materials capable of supporting research in the subject field of the collection. First Prize: *No Award.* Second Prize: *Nicholas Kilmer Westbrook, '71.* Third Prize: *William Alan Doubleday, '72.*

The Frank A. Hosmer Scholarship, from the income of a fund of $15,000 established by Frank A. Hosmer of the Class of 1875; $600 is awarded to that member of the sophomore class who, being already on the scholarship list, shall have attained the highest standing in the studies of the freshman year. *Michael Peter Madow, '71.*

The Robert L. Leeds, Jr. Honor Award. A $100 bond and an engraved medallion are presented in honor of Robert Leeds, Jr. of the Class of 1951 to an Amherst senior who has demonstrated through action a lasting commitment to projects of social concern. *James Vernon Dick, '69.*

The Gordon B. Perry Memorial Award, from the income of a fund of approximately $1,500, provides a trophy and cash prize of $125 to a freshman in good academic standing whose participation and attitude in freshman athletics and other activities are outstanding. *John Richard Perry, '72.*

The Porter Admission Prize, from the income of a fund of $1,200, established by the late Eleazer Porter of Hadley; $105 is awarded each year to the member of the entering freshman class who is judged to have the best general record on the College Board tests taken for admission to Amherst.

The name of the successful candidate, together with that of his school, is published in the catalog. *David Jeffrey Levenson, '72,* Peabody High School (Pittsburgh, Pennsylvania).

The Psi Upsilon Prize, from the income of a fund of approximately $5,500, established by the Gamma Chapter of Psi Upsilon in 1941 on the occasion of the Centennial Anniversary of the founding of the Chapter; $400 is awarded to that member of the graduating class who, in the opinion of a committee consisting of the President of the College, the Dean, and the Chairman of the Department of Physical Education and Intercollegiate Athletics, is considered to be "The First Citizen of the College." *Robert Horatio Brown, Jr., '69.*

The John Sumner Runnells Memorial, from the income of a fund of $6,300, established in memory of John Sumner Runnells of the Class of 1865; $555 is awarded to that member of the sophomore class who shall in the opinion of the Trustees of the College be preeminent in his zeal for knowledge and industry to attain it. *William Jay Eisen, '70.*

The Obed Finch Slingerland Memorial Prize, from the income of a fund of $11,400 established by an anonymous donor; $1,000 is awarded by the Trustees of the College to that member of the junior class, who, during his first three years at Amherst, has shown by his own determination and accomplishment the greatest appreciation of and desire for a college education. *William Lawrence Foye, Jr. '69.*

The Sylvester Scholarship of $750 provided by an annual gift from Albert L. Sylvester of the Class of 1924, is awarded to a senior who, being already on the scholarship list, at the end of his junior year has combined most clearly outstanding success in extra-curricular activities, including athletics, with academic distinction in one or more fields. *Joseph Francis Quinn, Jr., '69.*

The Stanley V. and Charles B. Travis Prize, from the income of a fund of $2,600; established by the late Charles B. Travis of the Class of 1864; $225 is awarded to that member of the graduating class who has made the most improvement as a man and as a scholar during his college course. Combined with The Woods Prize and divided between *Jeffrey Bruce Abramson, '69* and *Dennis Paul Anderson, '69.*

The Woods Prize, an annual gift of $55 in memory of the late Josiah B. Woods of Enfield, is awarded for outstanding excellence in culture and faithfulness to duty as a man and as a scholar—particular attention being given in any prominent case to improvement during the four years' course. Combined with The Travis Prize and divided between *Jeffrey Bruce Abramson, '69* and *Dennis Paul Anderson, '69.*

The Robert E. Bauser Memorial Award of a twenty-five dollar United States savings bond (or its equivalent), is given at the close of every academic year to that member of the senior class who, in the opinion of the senior board of Radio Station WAMF, has been of the greatest service in the operation and development of the station during his tenure as station member. This award is sustained in perpetuity of Amherst College by the Alpha Chi Chapter of Phi Gamma Delta in memory of its brother, Robert E. Bauser, '54. *John Alan Popejoy, '69.*

The Ashley Memorial Trophy, given by the Class of 1916 in memory of Thomas W. Ashley, '16, who was killed in action at Belleau Wood in 1918, is presented annually to the retiring member of the football team who, in the opinion of a committee consisting of the Coach, the Manager, and the Captain-elect, has best "played the game." *William Lawrence Foye, Jr., '69.*

The Howard Hill Mossman Trophy, awarded annually to the member of the senior class, who, in the opinion of a committee consisting of the President of the College, the Dean, the Chairman of the Department of Physical Education and Intercollegiate Athletics, and the President of the Student Council, has brought, during his four years at Amherst, the greatest honor in athletics to his Alma Mater—the word "honor" to be interpreted as relating both to achievement and to sportsmanship. *William Lawrence Foye, Jr., '69.*

The Lincoln Lowell Russell Prize, from the income of a fund of $1,200 established by the late J. W. Russell, Jr. of the Class of 1899 in memory of his son; $105 is awarded to that member of the graduating class who has done most to foster the singing spirit in Amherst College. Divided equally among *Robert Edward Berglund, '69, Terry Frank Cashmore, '69, Francis Sessions Cole, III, '69* and *Stephen Edward Neel, '69.*

Degrees Conferred

NOVEMBER 2, 1968

BACHELOR OF ARTS

Cum laude

Ronald Jay Buchheim

Rite

Robert Devereux Eddy, Jr.

JANUARY 25, 1969

Rite

William Clarence Robinson, III

David Walter Weaver

APRIL 19, 1969

Rite

Christopher Nigel Houston Beal
Anthony Charles Cuda
John Andrew deVoursney
Charles Josef Ebert
James Whitney Greene
Albert William Simmonds

JUNE 6, 1969

Summa cum laude

Jeffrey Bruce Abramson
Independent Scholar
Cheltenham, Pennsylvania

David Edwin Altschul
American Studies
Yonkers, New York

James Vernon Dick, *American Studies*
Wellesley Hills, Massachusetts

David James Hills, *Philosophy*
Nashua, New Hampshire

Robert Wayne Ihne
Independent Scholar
Martinsville, New Jersey

Kent Leonard Jones
Independent Scholar
Tripoli, Libya

Donald John Mastronarde
Classics
Hartford, Connecticut

Michael Meabon Schaeffer
Independent Scholar
Philadelphia, Pennsylvania

William Gregory Thalmann, III
Independent Scholar
Long Valley, New Jersey

Magna cum laude

Dennis Aftergut, *Independent Scholar*
St. Louis, Missouri

Frederick David Baron
American Studies
Olivette, Missouri

Richard Lawrence Berlin
Independent Scholar
West Orange, New Jersey

Charles Everett Breed
Independent Scholar
Stanford, California

Robert Horatio Brown, Jr., *Biophysics*
Chevy Chase, Maryland

Coleman Hampton Casey
Independent Scholar
New York, New York

Donald Adams Colburn
American Studies
Wellesley Hills, Massachusetts

Howard Conn, *Biology*
Hampton, Virginia

Robert Jeffrey Dwyer, *History*
Elizabeth, New Jersey

James Russell English, III, *Physics*
Shamokin, Pennsylvania

Andrew Claypoole Eustis, *Psychology*
Cincinnati, Ohio

Jack Mark Fishaut, *Biology*
Vancouver, British Columbia, Canada

Jeffrey Dorrington Fisher, *Geology*
Creve Coeur, Missouri

Peter Kimball Flaccus, *Fine Arts*
Missoula, Montana

William Edward Glassman, *Psychology*
Pawtucket, Rhode Island

Dwight Emmanuel Golann, *Economics*
Concord, Massachusetts

Richard Harrington Gregory, III
Fine Arts
Bronxville, New York

Timothy Steiner Hardy, *Economics*
Olympia Fields, Illinois

Sherwood Harrington, *Astronomy*
Amherst, Massachusetts

David Arthur Heinlein
American Studies
Piscataway, New Jersey

Paul Andrew Johnson, *Biology*
Valley Stream, New York

Jared Daniel Kass, *Independent Scholar*
New Rochelle, New York

Daniel Whittemore Keller
Independent Scholar
Laconia, New Hampshire

Robert David Klugman
American Studies
Havertown, Pennsylvania

David Ernst Laurence, *American Studies*
Swampscott, Massachusetts

Philip Joshua Lawrence
Independent Scholar
Port Washington, New York

James Hollingsworth Maier, *Biology*
Bryn Mawr, Pennsylvania

Richard Levis McCormick
American Studies
Piscataway, New Jersey

William Lee Meadow, *Biophysics*
Roslyn Heights, New York

David Thornton Moore
American Studies
White Plains, New York

A. Gordon Murray, *Philosophy*
Winnetka, Illinois

Andrew Zygmunt Nagorski
Independent Scholar
Scarsdale, New York

Joseph Francis Quinn, Jr., *Economics*
Baltimore, Maryland

David Sherman Rea, *Economics*
Ann Arbor, Michigan

David Hall Roberts, *Physics*
Washington, D.C.

Joseph Henry Sellin, *History*
Syracuse, New York

Kent Thompson Stauffer, *Economics*
Trotwood, Ohio

Jonathan Ralph Steinhart, *English*
Roselle, New Jersey

Douglas Wyatt Sterner, *History*
Windsor, Connecticut

Sang Mok Suh
Economics and Mathematics
Seoul, Korea

Peter Susi, *Economics*
Pittsfield, Maine

Loran Tyson Thompson, *Mathematics*
New York, New York

Bruce Gordon Wallace, *Biophysics*
Westfield, New Jersey

Michael Stuart Wayne
Independent Scholar
Toronto, Ontario, Canada

Morrison DeSoto Webb, *English*
South Salem, New York

Scott Ormsbee Wilson
Independent Scholar
Eugene, Oregon

Edwin Mershon Wolf, *Mathematics*
Cambridge, Massachusetts

Cum laude

Franklin Gordon Allen, III
American Studies
Baltimore, Maryland

Richard Allan Aronson, *Religion*
New York, New York

Joel Emerson Bartlett, *American Studies*
Berkeley, California

David Wichmann Barton, *Economics*
Summit, New Jersey

Robert Burns Begg, IX, *English*
Montague Center, Massachusetts

Alan Mayer Blum, *English*
Cedarhurst, New York

Guy Alwyn Bramble, *American Studies*
Southfield, Michigan

Alan Jay Brightman, *Psychology*
Hull, Massachusetts

Richard Edwin Carroll, *Biology*
Merrick, New Jersey

Terry Frank Cashmore, *Psychology*
Penfield, New York

Charles Anthony Castle, *Biology*
Middletown, Rhode Island

Edward Morton Clarke, Jr.
Political Science
Newton Upper Falls, Massachusetts

James Ralph Cocroft, *History*
Glenview, Illinois

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DOCTOR OF LAWS

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V

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Wessels, Stephen Wallace
West Hartford, Connecticut

Wiedmann, Clark Allen
Palos Verdes Peninsula, California

Wilcox, Jamison Van Voorhees
Sacramento, California

Wilcox, William Webb
Meriden, Connecticut

Willard, John Morris
Chappaqua, New York

Williams, Marquis Kenneth
Medfield, Massachusetts

Willoughby, Richard Rawlings
Warren, Ohio

Wilson, Neil Proctor, Jr.
Cape Coral, Florida

Wilson, Steven Brooks
Pittsford, New York

Winn, Dennis Lee
Dallas, Texas

Winslow, James Weeks
Tarboro, North Carolina

Witten, Montgomery Wray
Bronxville, New York

Wodlinger, Eric Winslow
Kodiak, Alaska

Wold, Ronald Odin
Beaverton, Oregon

Wolff, Peter Uri
Syracuse, New York

Wood, Robert Aldace
West Boylston, Massachusetts

Woolf, Burton Israel
Brookline, Massachusetts

Woolrich, Robert James Philip
Mt. Vernon, New York

Yaghjian, David Henry
Columbia, South Carolina

Zarin, David Paul
South Orange, New Jersey

Zenick, Mark William
Waterbury, Connecticut

Zimmerman, John Jeffrey
Algonquin, Illinois

Zoulalian, George Paul
Revere, Massachusetts

Zuckerman, Lanny Marc
Yorktown Heights, New York

Juniors Class of 1971

Abbey, Douglas Dix
Chappaqua, New York

Agnew, Peter Tomlin
Summit, New Jersey

Ahern, John Joseph, III
Excelsior, Minnesota

Albisetti, James Charles
Williamsville, New York

Allen, Bruce Edgarton
Canton, Massachusetts

Allen, Taylor Metcalf
Rockport, Maine

Alper, Jonathan Louis
Chevy Chase, Maryland

Anderson, Herbert Clark
Evansville, Indiana

Anderson, John Arvid
Portland, Connecticut

Andrews, Robert Goff
St. Paul, Minnesota

Andrews, Terry Leland
Lincoln, Illinois

Axinn, Lennard Dale
Huntington, New York

Bacon, Douglas Arms
Amherst, Massachusetts

Bailey, Michael Jack
Louisville, Georgia

Bailey, Morris Edward
Syracuse, New York

Bartlett, David Scott
Chevy Chase, Maryland

Barwick, William Durham
Atlanta, Georgia

Beckerman, Dale Lee
Omaha, Nebraska

Bedard, Richard Frank
Springfield, Massachusetts

Beeson, John Robinson
Chappaqua, New York

Belding, David French
St. Johnsbury, Vermont

Benge, Guy Thomas
Caracas, Venezuela

Bias, Thomas Grantland
Baltimore, Maryland

Bicknell, John Leonard
Marshfield, Massachusetts

Bliss, John Wheeler
Locust Valley, New York

Bottiggi, James Augustus
Barre, Vermont

Boxer, Martin Brand
Scarsdale, New York

Bradley, John Mackemer
Peoria, Illinois

Bradley, Michael Allen
North Smithfield, Rhode Island

Breton, Michael Eugene
Wakefield, Massachusetts

Brody, Martin Alan
Elgin, Illinois

Brown, Garrett Mills
Darien, Connecticut

Brown, Robert Alden
Buffalo, New York

Butterfield, Bruce Scott
Haworth, New Jersey

Carroll, William Joseph Edward
Reading, Massachusetts

Cassidy, Owen Michael
Lynbrook, New York

Chapin, John Alexander
Wellesley Hills, Massachusetts

Chase, Rodman Abbot
Bristol, Rhode Island

Clauss, Roy Stuart
New York, New York

Coffin, Mark Tristram
Haverford, Pennsylvania

Collins, John Harding Horan
Chevy Chase, Maryland

Comfort, Richard Whiteley, Jr.
Columbus, Ohio

Compton, Joseph Emerett, III
Detroit, Michigan

Corbett, Alfred Hoyt, Jr.
Washington, D.C.

Cornell, Christopher Lloyd
Providence, Rhode Island

Couper, Barrett Williams
Clinton, New York

Crimp, David Hathaway
Downingtown, Pennsylvania

Croft, Frederick Titus
New York, New York

Crosson, David Anthony
West Hartford, Connecticut

Cummings, Roger Holt
Birmingham, Michigan

Cushman, Frank Pendleton
Amherst, Massachusetts

Danforth, Loring Mandell
Westwood, Massachusetts

Daniel, Errol Valentine
Nawalapitiya, Ceylon

Dasher, John Morton
Darien, Connecticut

Davis, Thomas Milburn, III
Arlington, Virginia

De Bree, Thomas Dean
Forked River, New Jersey

DeForge, Michael Glynn
Agawam, Massachusetts

DeWitt, Norman Wentworth, II
Minneapolis, Minnesota

DeWitt, Thomas Gebhard
Michigan City, Indiana

Dickinson, John Carlton
East Aurora, New York

di Sant'Agnese, Paul Anthony
Washington, D.C.

Donovan, Thomas Edward
Norwood, Massachusetts

Dorrance, Christopher Allison
Penfield, New York

Dowding, Piers Hugh Tremenheere
Rochester, New York

Duffield, Christopher
Tucson, Arizona

Duffy, Kirk Mallory
Greenwich, Connecticut

Dunn, Stephen Cameron
Rumson, New Jersey

Ellenport, Robert Saul
Union, New Jersey

Elliott, Robert Raymond, III
Interlaken, New York

Elman, Joseph Shalit
Bethesda, Maryland

Elster, James Richard
Tenafly, New Jersey

Emory, David Alan
Scarsdale, New York

English, Edward Robertshaw
Dedham, Massachusetts

Farwell, Steven Austin
Northbrook, Illinois

Fawcett, Robert Sayers
Cedar Rapids, Iowa

Feierabend, Raymond Hopkins, Jr.
Baton Rouge, Louisiana

Finlayson, Ian Edward
Toronto, Ontario, Canada

Fischer, Frederick John
St. Paul, Minnesota

Fisher, Andrew Randolph
New York, New York

Flewelling, Robert Arthur
Crouseville, Maine

Francis, Carl Arthur
Springfield, Massachusetts

Francis, Henry Minton, Jr.
Riverdale, New York

Frazer, James Nisbet, Jr.
Atlanta, Georgia

Freeman, George Henry
New York, New York

French, Peter Haskins
Wellesley Hills, Massachusetts

Fuller, Thomas Hoyt, Jr.
Portsmouth, Virginia

Garlan, David Barnard
Portland, Oregon

Gaymon, William Victor
Silver Spring, Maryland

German, Daniel Nicholas
Harbor City, California

Gilbert, Charles Douglas
Great Neck, New York

Gilkeson, John Shanklin, Jr.
Claremore, Oklahoma

Glantz, Jonathan Richard
Rockville Centre, New York

Goggans, Frederick Crawford
Fort Worth, Texas

Goldman, Henry Frank
Rockville Centre, New York

Goodman, Richard Stuart
St. Paul, Minnesota

Gordon, Peter Hofman
Beachwood, Ohio

Grandy, Wilbert Haywood, Jr.
Washington, D.C.

Gudridge, Kevin Bradley
Rockville, Maryland

Gunnels, Stephen Hugh
Downers Grove, Illinois

Haley, Joaquin Bradford
San Diego, California

Handyside, Read Shailer
Schenectady, New York

Harding, Robert Weld, Jr.
Augusta, Georgia

Harris, Benjamin Fulliard
Dallas, Texas

Hawkins, Robert Wilson
Charlottesville, Virginia

Heck, Richard Charles, Jr.
Royal Oak, Michigan

Heller, Jonathan O'Neill
Middletown, New Jersey

Hellerman, James Guy
Longmeadow, Massachusetts

Hendricks, John Kelly Philip
Meadville, Pennsylvania

Herald, Steve Andrew Gerard
Paris, France

Herzberg, Bruce Irving
Vineland, New Jersey

Hill, Steven Devereux
Marblehead, Massachusetts

Hoadley, Thomas Arthur
Milford, New Hampshire

Hogan, Clifford Nelson
West Springfield, Massachusetts

Hom, Anthony James
Albertson, New York

Horn, Steven Eliot
Scarsdale, New York

Howe, Frank Alexander
Cincinnati, Ohio

Hoyt, David Butler
Akron, Ohio

Ignatoff, Elisha M.
Bronx, New York

Jaenike, John Robert, Jr.
Pittsford, New York

Jakobek, James Wallace
Merrimac, Massachusetts

Johnson, David Robert Michael
Windsor, Connecticut

Jones, Robert Lee 1
Bristol, Connecticut

Jones, Robert Lee 2
Tulsa, Oklahoma

Karasick, Ira Barry
Roslyn Heights, New York

Karter, Michael Joshua
New York, New York

Kay, Jonathan Nueve
Wilmington, Delaware

Kelly, Denis Francis
Worcester, Massachusetts

Kendall, William Robert
Stroudsburg, Pennsylvania

Kenyon, Allen T. Scott
New Rochelle, New York

Kister, Edward Arthur, Jr.
Pittsburgh, Pennsylvania

Klein, Laurence Alan
Brooklyn, New York

Koths, Kirston Edward
Storrs, Connecticut

Kozlow, Gerald Michael
Dearborn Heights, Michigan

Kriss, Eric Arthur
Stanford, California

Kyff, Robert Stewart
Armonk, New York

Landers, Thomas Patrick Mark
Hartford, Connecticut

Landmesser, Charles Watson
Loudonville, New York

Landon, Gregory Charles
Vestal, New York

Lanza, John Francis, Jr.
Hingham, Massachusetts

Laracuente, Harry
New York, New York

Laurenson, Edwin Charles
Canton, Ohio

Leonard, Daniel Pitt
Darien, Connecticut

Lerner, Corey Eliot
Rego Park, New York

Lewy, Glen Sheldon
New Milford, New Jersey

Lincoln, Edward John
Basking Ridge, New Jersey

Linker, Jonathan Steven
Princeton, New Jersey

Lipsky, Abbott Bennett, Jr.
Cedar Rapids, Iowa

Litowitz, Robert Harold
Yonkers, New York

Little, Justin Frank
Moorestown, New Jersey

Low, Stuart
Danvers, Massachusetts

Lucas, Frederick Vance, Jr.
Columbia, Missouri

Luce, Robert Warren
Moorestown, New Jersey

Mack, George Edgar
Litchfield, Connecticut

MacKay, Leigh Barbour
Marshfield, Massachusetts

Mackie, John Perkins
Stockbridge, Massachusetts

Madow, Michael Peter
Valley Stream, New York

Malick, Daniel Franklin
Monroeville, Pennsylvania

Mandelbaum, Joel
Brooklyn, New York

March, Charles Whipple
South Yarmouth, Massachusetts

Marino, Michael Joseph
Farmington, Connecticut

Marinucci, Ronald Eugene
Dearborn, Michigan

Mason, John Dudley
Catlettsburg, Kentucky

Matis, Louis Alan
Woodmere, New York

Mayo, Thomas William
Holyoke, Massachusetts

McBride, John Hammond, Jr.
West Hartford, Connecticut

McEvoy, Peter Bens
Bangor, Maine

McKenna, John Andrew
San Mateo, California

McKeon, John Harold, Jr.
Moorestown, New Jersey

McNamara, Robert James
New York, New York

McNeer, Craig Selden
Montpelier, Vermont

McNitt, Willard Charles, III
Winnetka, Illinois

Merrill, Charles Clement
Marysville, California

Merves, Edward Hofkin
Philadelphia, Pennsylvania

Miller, Keith Lawrence
Glencoe, Illinois

Mixter, Roger Conant, Jr.
Milwaukee, Wisconsin

Moest, Robert Charles
Buffalo, New York

Monego, John Edwin
Sherborn, Massachusetts

Monroe, Paul Sheldon
Chatham, New Jersey

Moore, Heath
Easton, Pennsylvania

Moore, William Fowler
Lewiston, Idaho

Moriarty, Marshall Theodore
Springfield, Massachusetts

Morris, Robert Lorenzo
Jamaica, New York

Mudge, John Tenbroeck
Lyme, New Hampshire

Murchison, Wallace Carmichael, Jr.
Wilmington, North Carolina

Nater, Timothy Michael James
Alexandria, Virginia

Nathan, David Matthew
Rockville Centre, New York

Nickerson, Daniel Warren
Portsmouth, New Hampshire

Oshima, Shotaro
Tokyo, Japan

Oxtoby, Thomas Corning
Bryn Mawr, Pennsylvania

Ozersky, Samuel
Winnipeg, Manitoba, Canada

Parten, John Randolph
Madisonville, Texas

Pearson, Stanford Carl
Tampa, Florida

Pelletier, Michael
St. Louis, Missouri

Perkins, Andrew Mensel
Batavia, New York

Pettit, William Arthur Gerard
Buffalo, New York

Pfeil, John Frederick
Port Allegany, Pennsylvania

Phillips, Edward Rooker
Southampton, Massachusetts

Playe, Stephen Jan
Homewood, Illinois

Podell, Ronald Mark
Elizabeth, New Jersey

Pomeroy, Tennyson Lee, II
North Reading, Massachusetts

Ponemone, Scott Davis
Randallstown, Maryland

Pritzker, Marc Richard
St. Paul, Minnesota

Quill, Timothy Edward
Marblehead, Massachusetts

Rachlin, Jeffrey
Tarrytown, New York

Reed, James Keel
Woodstown, New Jersey

Reed, Stephen Alan
Rochester, New York

Rhodes, Roger Walker
Amherst, Massachusetts

Richmond, John Alan
Tampa, Florida

Rimmer, Norman David
Wellesley, Massachusetts

Rizzo, Joseph Nicholas, Jr.
Manhasset, New York

Robinson, William Eric
Woodland, California

Roderick, Barry Nelson
Oxford, Maine

Rogalski, Gary Louis
Westland, Michigan

Romano, Gennaro Anthony, III
Derby, Connecticut

Rosenthal, Andrew Martin
Woodcliff Lake, New Jersey

Rowley, William Robert
Natick, Massachusetts

Ryan, Russell Lloyd Ranson
East Grand Rapids, Michigan

Salem, David William
North Brookfield, Massachusetts

Samaras, Alexandros Constantine
Athens, Greece

Sandhaus, Richard Carl
Westport, Connecticut

Schoonmaker, William Barnes
Ventura, California

Schott, Winfried
Port Washington, New York

Schwarz, Ralph
Westport, Connecticut

Scott, Terrence Lyon
Maplewood, New Jersey

Segal, Eric Lloyd
Worcester, Massachusetts

Seim, Anders
Rye, New York

Sernaker, Harry Lewis
Bayside, New York

Shepardson, Rodney Beale
Reston, Virginia

Shook, James Merrill
Scotia, New York

Sills, Marc Alan
Chelmsford, Massachusetts

Silverman, David Lee
Melville, New York

Simko, Michael Devlin
Trenton, New Jersey

Sizer, Joseph Edwin, III
Minneapolis, Minnesota

Smart, Robert Thomas, Jr.
Braintree, Massachusetts

Smith, Crawford Cunningham
Wilkes-Barre, Pennsylvania

Smith, Mark Alan
East Meadow, New York

Smith, Michael Raymond
Baltimore, Maryland

Smith, Winthrop Hiram, Jr.
Litchfield, Connecticut

Snyder, Gordon Barnefield
Woodbridge, Connecticut

Solomon, Rodney Jeff
Cincinnati, Ohio

Spear, Frank Shaw
Westport, Connecticut

Spivack, Carl R.
New York, New York

Stark, Whitney Williams, III
New City, New York

Stec, Philip Joseph Edward
Newington, Connecticut

Stephens, Paul Richard
Circleville, Ohio

Stevenson, Mark Andrew
Lancaster, Pennsylvania

Stifler, David Evans
Baltimore, Maryland

Stoddard, Edward Forrest, III
Amherst, Massachusetts

Stott, Frederic Sanderson
Andover, Massachusetts

Stowe, James Borst
North Haven, Connecticut

Strandburg, Robert John
Chappaqua, New York

Strickler, Charles Suplee, Jr.
Gladwyne, Pennsylvania

Suher, Thomas Richard
Springfield, Massachusetts

Sutphin, Gregory Barton
Huntington, New York

Tait, Raymond Caldwell
Summit, New Jersey

Taunton, Joel Christopher
Glen Rock, New Jersey

Taylor, Thomas Glanville
Providence, Rhode Island

Teichgraeber, Richard Frederick, III
Houston, Texas

Thompson, Richard Stanley
San Bernardino, California

Tolan, Thomas Lawrence, III
Milwaukee, Wisconsin

Tombs, Edward Andrew Alfred
Port Credit, Ontario, Canada

Tucker, Herbert Frederick, Jr.
Rumford, Rhode Island

Turton, Roger Wilmot
Greenfield, Massachusetts

Urrizola, Manuel Michael, Jr.
Stockton, California

Valiunas, Dominic Rytis
New Rochelle, New York

Van Dyk, Gerald Johan
Baldwinsville, New York

Varney, Ronald Dixon
Yardley, Pennsylvania

Vitello, Ernest Allen
Derby, Connecticut

Vitousek, Peter Morrison
Honolulu, Hawaii

Volet, Thomas
East Hills, New York

Wartenberg, Thomas Eliot
Great Neck, New York

Warthen, John Benton, III
Vidalia, Georgia

Webber, William Sutton, IV
Great Barrington, Massachusetts

Weeks, Robert Roland
Seattle, Washington

Wenzel, Robert Frederick
St. Louis, Missouri

Wesson, Laurence Nathaniel
Rosemont, Pennsylvania

Westbrook, Nicholas Kilmer
Ballston Spa, New York

Whalen, Thomas Joseph, III
Stoughton, Massachusetts

Wheeler, William Randolph
Durham, New Hampshire

Whittemore, Stanley Lawrence, Jr.
Winnetka, Illinois

Wilkes, Charles Cafritz
Bethesda, Maryland

Wilkins, Arthur Carroll
Silver Spring, Maryland

Williams, Wilburn, Jr.
Greenwood, Mississippi

Wolman, James David
Philadelphia, Pennsylvania

Yarchoan, Robert
Oceanside, New York

Zaffetti, Dennis John Joseph
Windsor, Connecticut

Zins, Barry Lewis
Chester, New Jersey

Sophomores Class of 1972

Ackerman, Stark
Allentown, Pennsylvania

Adolfi, Henry Joseph
Rome, New York

Aitken, Bruce Gardiner
Belem, Para, Brazil

Alexander, George Martin
Athens, Greece

Allen, William Neal
Portland, Maine

Allmart, William George
Wayne, Illinois

Babington, Douglas Neil
Stamford, Connecticut

Bainbridge, Robert Hastings
Chestnut Hill, Massachusetts

Barbour, Bernard Eric
East Orange, New Jersey

Barr, Philip Edward
Agoura, California

Bartkowski, Adam Stanely
Irvington, New Jersey

Beck, Max William
Yeadon, Pennsylvania

Bedwell, William Brian
Grosse Pointe Farms, Michigan

Bell, Robert Kenneth
Bronx, New York

Benson, Richard Addison
Sturgis, Michigan

Berman, Arthur Emmet
Cincinnati, Ohio

Bernstein, Louis Benson
Glen Cove, New York

Berry, Jeffery Paul
FPO New York, New York

Bevan, Mark Filbert
Baltimore, Maryland

Biggs, Eric Richard
Eugene, Oregon

Bittman, James Brown
Ann Arbor, Michigan

Black, Jonathan Roberts
Wakefield, Massachusetts

Blackwell, Thomas Wrightington
Lexington, Massachusetts

Blair, Mitchell Warren
Malverne, New York

Blockwick, Craig Nicholas
McLean, Virginia

Bodine, Laurence
Sioux City, Iowa

Boehm, Stephen Jordan Griffith
Washington, D.C.

Borton, Richard Warren
Huntingdon Valley, Pennsylvania

Botteon, Alan John
Southington, Connecticut

Brady, Thomas Geoffrey
Lynnfield, Massachusetts

Brailow, David Gregory
Keuka Park, New York

Brandt, Eric Stuart
Orange, Connecticut

Branigan, Mark Christopher
Armonk, New York

Briliant, Seth Howard
Ventnor, New Jersey

Broadbent, John Howard
East Providence, Rhode Island

Brock, James Thacher
Ridgewood, New Jersey

Bromell, Nicholas Knowles
FPO New York, New York

Brothers, Larry Lester
East Rochester, New York

Bulman, Michael Shea
Bethesda, Maryland

Butrica, James Lawrence
Magnolia, New Jersey

Cadwell, Steven Allen
Pittsford. Vermont

Campbell, Scott Glenn
Wethersfield, Connecticut

Canaday, Peter Gregson
Arlington, Massachusetts

Carr, Jesse Huntington
Middletown, Connecticut

Case, David Randall
East Grand Rapids, Michigan

Cavalier, Stevan John
Louisville, Kentucky

Chan, Anthony Sing Lam
Honolulu, Hawaii

Chapman, Paul LeGrand
Fayetteville, New York

Chrisemer, Kurvin Edgar Wier
Pottstown, Pennsylvania

Clamurro, Gary David
Nutley, New Jersey

Cloues, Richard Ross
Warner, New Hampshire

Cockshutt, Timothy Geoffrey
Red Bank, New Jersey

Cody, Eric Peer
Barrington, Illinois

Cody, Jeffrey William
Westbury, New York

Cohen, Richard Bruce
East Rockaway, New York

Cohn, Daniel Richard
Stamford, Connecticut

Cornigans, Robert Lee
Bay Shore, New York

Cousey, Stephen John
Waterbury, Connecticut

Coyle, Donald Lorne
Ridgewood, New Jersey

Craven, Jeffrey Alan
Pittsford, New York

Crittenden, Rupert Dukas
San Francisco, California

Cummings, George Edward
South Boston, Massachusetts

Cummins, John Patrick James. III
Olean, New York

Cutler, Stephen Alan
Morristown, New Jersey

Daly, Dennis Anthony
Avon, Connecticut

Danner, Robert Frederick, Jr.
Needham, Massachusetts

Dase, Wolfgang Arthur
Shelton, Connecticut

Davis, Douglas Alan
River Forest, Illinois

DeMartine, Joseph Robert
Linkenheim, Germany

Dempsey, David Barnes
Manchester, Massachusetts

Diamond, William David
Westport, Connecticut

Dietz, Abraham Pinanski
Newton Centre, Massachusetts

Domingue, Gregory Allen
Baton Rouge, Louisiana

Dore, Michael Patrick
North Bergen, New Jersey

Doubleday, William Alan
Amherst, Massachusetts

Drisko, James Winship
Yonkers, New York

Dunn, Christopher Romney
Westwood, Massachusetts

Eaton, Robert Ayers, Jr.
Hingham, Massachusetts

Egan, Michael James, II
Timonium, Maryland

Eggers, Richard Melvin
DeWitt, New York

Ellis, Gregory Russell
New Britain, Connecticut

Emberson, Richard Maury, Jr.
Huntington, New York

Facey, Roger Duncan
Westbury, New York

Ferrandino, Vincent Luke
Norwalk, Connecticut

Feuerstein, Lee William
New York, New York

Filler, John Nicholas
Williamstown, Massachusetts

Fisher, Robert David
Brooklyn, New York

Fitts, Douglas Allan
Barre, Vermont

Flynn, Maurice Richard, III
Malden, Massachusetts

Foley, Steven Adams
Leverett, Massachusetts

Fort, Timothy Ward
Plainfield, New Jersey

Foster, Stephen Matthews
Somerville, Massachusetts

Fox, James Warren
Sudbury, Massachusetts

Franke, Jay Robert
Milwaukee, Wisconsin

Fugett, Jean Schloss, Jr.
Baltimore, Maryland

Gang, Stephen Ralph
Upper Montclair, New Jersey

Garcia, Franco, Jr.
Westfield, Massachusetts

Gillette, Clayton Porter
New Haven, Connecticut

Godek, Edward Joseph, Jr.
South Hadley, Massachusetts

Goodrich, David West
Santa Barbara, California

Gordon, Harold Damery
Schenectady, New York

Gordon, John Davidson
Wilmington, Delaware

Greenough, Walter Croan
New York, New York

Griffiths, Robert Pennell
Hinsdale, Illinois

Griffiths, Thomas Llewelyn
Park Ridge, Illinois

Grimes, Stephen Arthur
Don Mills, Ontario, Canada

Haag, Gary Eden
Ivyland, Pennsylvania

Hager, Bradford Hoadley
Johnstown, Pennsylvania

Hall, Burton Robert
Bethesda, Maryland

Hamilton, John Francis
Forestville, Connecticut

Hammen, Charles Scott
Amherst, Massachusetts

Harding, James Linley
Simsbury, Connecticut

Harris, Thomas Norman
Piedmont, California

Hart, Henry, III
Philadelphia, Pennsylvania

Hart, Henry Ashton
Bethesda, Maryland

Hartzler, Joseph Henry
Worthington, Ohio

Hastings, Richard Radcliffe
Pelham Manor, New York

Hathaway, David Laurence
Amherst, Ohio

Hauger, William Doit
Westminster, Massachusetts

Hazen, Steven Roger
Tucson, Arizona

Heald, Geoffrey Thayer
Hingham, Massachusetts

Heard, Joseph Garrett, IV
Wellesley, Massachusetts

Heffernan, Edwin James
Kennebunk, Maine

Heim, Stephen Mark
Burlington, Vermont

Helfand, David John
Mattapoisett, Massachusetts

Hemley, Frederick August
New York, New York

Hoag, Selwyn Barton, III
Littleton, Colorado

Hoffman, Mark Alan
West Newton, Massachusetts

Holzman, Thomas Ludwig
Lexington, Massachusetts

Hoxsie, Kenneth Allen
Warwick, Rhode Island

Ingalls, John Sumner
Binghamton, New York

Jay, Jeffrey Alan
Trenton, New Jersey

Johnson, Douglas Clark
Evanston, Illinois

Jones, Jeffrey Rickey
Elmira, New York

Jones, John Paul
Springfield, Massachusetts

Katz, Stuart George
Bloomfield, Connecticut

Keene, John Willis, Jr.
Willimantic, Connecticut

Kelleher, Michael Harry
Medfield, Massachusetts

Kerst, Richard Duncan
Katonah, New York

Kessell, Stephen Robert
South Paris, Maine

Kim, Dae-Young
Washington, D.C.

Kingman, Robert Edwin
Wayzata, Minnesota

Kloepfer, George Joseph, II
Buffalo, New York

Kornblith, Gary John
Pound Ridge, New York

Koulouris, Paul Eustratius
Wakefield, Massachusetts

Kroboth, Frank James, III
New Hartford, New York

Kuperberg, Mark Jeffrey
Monsey, New York

Landfield, Timothy Arnold
Evanston, Illinois

Leach, James David
Tacoma, Washington

Lebowitz, Brian Ephraim
Austin, Texas

Lee, David Robinson
New Salem, Massachusetts

Leigh, Armistead Macon, III
Shaker Heights, Ohio

Lenz, William Ernest, III
Haverstraw, New York

Leonard, Gregory Louis
Boston, Massachusetts

Levenson, David Jeffrey
Pittsburgh, Pennsylvania

Levy, Philip Raphael
Denver, Colorado

Lind, Robert Lockwood
Nashua, New Hampshire

Lipscomb, Thomas Roger
Wilmington, Delaware

Maislen, Alan David
West Hartford, Connecticut

Maitland, James Campbell
Northfield, Minnesota

Manstein, Carl Howard
Rydal, Pennsylvania

Martz, Peter Morris
Alexandria, Virginia

Marx, David, Jr.
Highland Park, Illinois

Maynard, Thomas Eugene
Groton, Connecticut

Mead, Albert Edward, Jr.
San Marino, California

Menzies, Douglas MacLaurin
Ossining, New York

Messing, Gary Marc
New York, New York

Metzger, Jeffrey Paul
Haworth, New Jersey

Miliotis, Mark George
Melrose, Massachusetts

Miller, James Alan
New Hartford, New York

Miller, James Doull
La Canada, California

Mitchell, Robert Lawton, Jr.
Garden City, New York

Montgomery, John Milton
Abington, Pennsylvania

Moore, Robert Wood, Jr.
Easton, Pennsylvania

Moore, William John, III
Winnetka, Illinois

Moss, Thomas Verne
Edina, Minnesota

Murphy, Timothy Cornelius
Stoneham, Massachusetts

Murray, David Kassor
Syracuse, New York

Ogilvie, Robert James
St. Louis, Missouri

Orent, Clifford
West Newton, Massachusetts

Orr, Gregory John
Agawam, Massachusetts

Orr, John Christopher
Fruita, Colorado

Ostrander, Remsen Griggs, III
Southampton, New York

Page, Terence Bowman
Orchard Park, New York

Parkhurst, Robert Bruce
Shaker Heights, Ohio

Pates, James Morgan
Fredericksburg, Virginia

Payton, Jeffrey Lewis
Amherst, Massachusetts

Peace, William Patton
St. Albans, Vermont

Peddicord, Douglas Jeffrey
Baltimore, Maryland

Pergola, Ronald Charles
New Milford, New Jersey

Perr, Norman Seth
Rockville Centre, New York

Perry, John Richard
Aurora, New York

Peters, Frederick Charles, II
Rosemont, Pennsylvania

Phillips, Malcolm Charles
Valley Stream, New York

Pilgrim, David Matthew
Brooklyn, New York

Planting, Charles Scott
St. Louis, Missouri

Plough, Jonathan Irvin
Bethesda, Maryland

Pollard, Brian Francis
Winnetka, Illinois

Porter, Horace Anthony
Columbus, Georgia

Potanka, Paul Edward
Avon, Connecticut

Quaintance, Robert Forsyth, Jr.
Wilmette, Illinois

Rain, John Wharton
Dallas, Texas

Ramsey, Kenneth Allen
Cincinnati, Ohio

Randall, Dean Bowman, Jr.
Excelsior, Minnesota

Ray, David Allan
Williamsville, New York

Reichstein, Benjamin James
Skikie, Illinois

Reilly, Kevin Connelly
Darien, Connecticut

Rice, Edward Werner, III
Larchmont, New York

Richards, Lee Sumner, III
Bedford, New York

Richardson, Victor Waldo
Tulsa, Oklahoma

Ritter, John Randolph
Allentown, Pennsylvania

Roberts, Christopher Chalmers
Washington, D.C.

Roberts, William Bailey
Waban, Massachusetts

Rodrigues, Michael Noel
Bronx, New York

Romero, Edgar Charles
Seattle, Washington

Rosen, Mark Alan
West Hartford, Connecticut

Rosenberg, Samuel Isadore
Baltimore, Maryland

Rosenbloom, Shepard David
Interlaken, New Jersey

Rosepink, Robert Joseph
Pittsburgh, Pennsylvania

Rounseville, William Robinson
Newton Centre, Massachusetts

Rubin, Michael Harry
New Orleans, Louisiana

Rubin, Wayne Mitchell
Fair Lawn, New Jersey

Ryan, Thomas Grady
Milwaukee, Wisconsin

Sachs, Joseph Frederick
Bronxville, New York

Sahakian, Richard Lewis
Dedham, Massachusetts

Salmi, Paul David
Holden, Massachusetts

Sawyers, Peter Cobb
Claremont, California

Sayward, David William
Concord, New Hampshire

Scharf, Paul Lloyd
Roslyn, New York

Schatteman, Geoffry Chardule
Moline, Illinois

Scheinfeldt, Jerry Karl
East Hartford, Connecticut

Schoff, William Lincoln, Jr.
Flourtown, Pennsylvania

Scott, Hector Lloyd
Hartford, Connecticut

Seaman, Henry Morgan
Federal Way, Washington

Senten, Jan William
Mexico D. F., Mexico

Shak, Steven
Cranford, New Jersey

Shapiro, Philip Nathan
Lewiston, Maine

Shea, Peter Michael
Dallas, Texas

Shimkus, David William
South Boston, Massachusetts

Sinclaire, Peter Edgecomb
Lawrenceville, New Jersey

Sklaver, Gary Peter
Middlebury, Connecticut

Small, Wilfred Thomas, Jr.
Worcester, Massachusetts

Snider, Frederic Girvan
White Plains, New York

Solkow, Michael Bruce
Scarsdale, New York

Somogyi, James William
Poughkeepsie, New York

Sorgi, Louis Vincent, Jr.
Milton, Massachusetts

Spear, Brian Hartwell
Worcester, Massachusetts

Stanback, Thomas Melville, III
Larchmont, New York

Stanne, Stephen Peter
Amherst, Massachusetts

Starkweather, George Allen, III
Havertown, Pennsylvania

Steere, David Faulkner
Providence, Rhode Island

Stephenson, John Frederick
Wilmette, Illinois

Stevenson, Mark Milam
Tarkio, Missouri

Stewart, Robert Terhune
Far Hills, New Jersey

Stickney, Kenneth John, Jr.
Cranston, Rhode Island

Stirn, Bradley Albert
Cleveland, Ohio

Stisser, Robert Gridley
Riverside, Connecticut

Stone, Michael Cutler
Berwyn, Pennsylvania

Strimer, Steven Overton
Delaware, Ohio

Suneson, Neil Hedner
Winchester, Massachusetts

Swartz, Dale Frederick, III
Darien, Connecticut

Swensson, Stuart Jordan, III
Terrace Park, Ohio

Tabenkin, Mark Seth
West Caldwell, New Jersey

Tallow, Matthew Alan
West Hartford, Connecticut

Teutsch, Clifford Lawrence
Glens Falls, New York

Thompson, Bruce Pollock
Swarthmore, Pennsylvania

Thompson, Myron
Philadelphia, Pennsylvania

Tidwell, Geoffrey Beatty
Lima, Peru

Tolle, Stephen John
Hingham, Massachusetts

Torem, Christopher Charles
New York, New York

Trencher, Peter Austin
Glen Cove, New York

Tritschler, David James
Creve Coeur, Missouri

Tunstall, Garnett Taylor, Jr.
Silver Spring, Maryland

Turesky, David Samuel
Portland, Maine

Tuttle, Robert Hayes
Stanford, California

Tyree, Gill Morgan
Washington, D.C.

Ullian, Joseph Alan
Merrick, New York

Urban, Thomas Stephen
Arlington, Virginia

Vairo, Edward James
New York, New York

Valenzuela, Gil Ramon
Washington, D.C.

Viner, Brant Leed
Washington, D.C.

Vogelsberg, Walter Herbert, II
Radnor, Pennsylvania

Vusi, Ibrahim Sixtus
Bamenda, West Cameroon

Wagner, Richard George, Jr.
Cranford, New Jersey

Wailes, Richard Carey
Lutherville, Maryland

Walker, Geoffrey Stearns
River Forest, Illinois

Wallack, Lewis Mark
Beachwood, Ohio

Walsh, Sean Patrick
Bronx, New York

Ward, James Bradford
Little Ferry, New Jersey

Welch, John Stewart
Raleigh, North Carolina

Wicklatz, James David
Wayzata, Minnesota

Williams, Russell Eugene
Savannah, Georgia

Willoughby, John Rawling, III
Warren, Ohio

Wilson, Charles Steele
Washington, D.C.

Wilson, Geoffrey Alan
Dover, Massachusetts

Wolf, Leslie Eric
Shaker Heights, Ohio

Wolpaw, Daniel Rick
Shaker Heights, Ohio

Wormley, Wayne Marvin
Grambling, Louisiana

Yamins, Robert Joseph
Freeport, New York

Yardley, Stephen Keyes
Needham, Massachusetts

Yates, David Carleton
Circleville, Ohio

Yaw, Gregory Russell
Jamestown, New York

Young, Ronald Henry
Ft. Pierce, Florida

Zametkin, Alan Joel
Providence, Rhode Island

Freshmen Class of 1973

Addison, Andrew Lewis
Lakewood, New Jersey

Ahrensdorf, LeRoy William, Jr.
Bryn Mawr, Pennsylvania

Allen, Paul Thorburn
Silver Spring, Maryland

Anderson, Anthony Bennett
Miami, Florida

Anderson, Robert Elmer, Jr.
West Barrington, Rhode Island

Angelo, John Kimberley
Hinsdale, Illinois

Aronow, Nathan Joshua
Newton, Massachusetts

Auger, Peter Joseph
Hyannis, Massachusetts

Austin, James Albert, Jr.
Scarsdale, New York

Bardolph, Richard, Jr.
Greensboro, North Carolina

Barrett, James Edward, III
Philadelphia, Pennsylvania

Beatty, Robert Loring, Jr.
Darien, Connecticut

Beckwith, Mark Monroe
Darien, Connecticut

Beinhorn, Will Alston
San Antonio, Texas

Bellante, Carl Stephen
Clarks Summit, Pennsylvania

Bellante, John Lawrence
Clarks Summit, Pennsylvania

Bemis, James McElvare
Austin, Texas

Bennett, Christopher Martin
Wellesley, Massachusetts

Benzel, Richard Lawrence
North Haven, Connecticut

Berman, Robert Glenn
Great Neck, New York

Bisiewicz, Alan Walter
Holyoke, Massachusetts

Black, John Robertson
Statesville, North Carolina

Blackstone, Robert Alan
Waukesha, Wisconsin

Bleiler, Robert Hilton, Jr.
Manchester, Connecticut

Blood, Robert Eldredge, III
Marblehead, Massachusetts

Boothby, Clyde Arthur
Gorham, Maine

Breckberg, Robert Lee
Kodiak, Alaska

Brennecke, Thomas Raymond
Marshalltown, Iowa

Broad, Michael
Manchester, New Hampshire

Broderick, Thomas Baldridge
Boston, Massachusetts

Brodie, Allan Gibson, III
Glenview, Illinois

Brown, David Mosser
Framingham, Massachusetts

Brown, Gerald Graham, III
Norfolk, Virginia

Brown, Irving Foster
Canton, New York

Bruner, Robert Ray
Kansas City, Missouri

Buchanan, John Andrew
New Canaan, Connecticut

Budrewicz, Robert Joseph
Greenfield, Massachusetts

Buehler, Peter Swift
Pound Ridge, New York

Bull, Webster Leland
Greenwich, Connecticut

Burchfiel, Kenneth James, Jr.
Howard Field, Canal Zone

Butler, Peter Williams
Winnetka, Illinois

Caffey, Andrew Alexander
Timonium, Maryland

Catto, Alistair John Alexander
Forfar, Angus, Scotland

Cavagnero, Paul Erman
Torrington, Connecticut

Caviston, Kerry Howard
Wenham, Massachusetts

Cawley, Michael Carroll
Bristol, Connecticut

Clark, William Howard, Jr.
Swarthmore, Pennsylvania

Clement, Charles Edward
Cambridge, Maryland

Cline, Craig Emerson
Williamsport, Maryland

Cochran, Stephen Larcher
Chevy Chase, Maryland

Cohen, Kenneth Robert
White Plains, New York

Conger, David Trist
Denver, Colorado

Connelly, Christopher James
Turners Falls, Massachusetts

Connelly, John Walter
Amherst, Massachusetts

Cooper-Smith, Jeffrey Paul
Orange, Connecticut

Cuddy, John Cooper
Garden City, New York

Cummings, Timothy Lincoln
South Paris, Maine

Curry, Dennis Lackey
New Rochelle, New York

Dacey, Henry Gowan, Jr.
Shaker Heights, Ohio

D'Andrea, John Joseph
Belmont, Massachusetts

Danielson, Richard Warren
Fair Haven, New Jersey

Dardick, Lawrence David
New Haven, Connecticut

Davis, Sidney James, Jr.
New York, New York

Dean, Robert Lee
Glen Ridge, New Jersey

Decyk, Julian Borys
Providence, Rhode Island

Dennis, Edward Forrest
Houston, Texas

Dibble, Stephen George
Cincinnati, Ohio

Dillon, Carl Frederick, Jr.
Lowell, Massachusetts

Doniger, Andrew Seth
Nanuet, New York

Doolittle, Gary Stephen
Portland, Connecticut

Douglas, Donnelly Stewart
Westbrook, Maine

Douglass, Malcolm Paul, Jr.
Claremont, California

Downes, David Alan
West Hartford, Connecticut

Dunlap, William Holmes
Concord, New Hampshire

Eastburn, David Rodman
Doylestown, Pennsylvania

Edelman, Leon Frederick
Glencoe, Illinois

Ehrenkranz, Joel Richard Lewis
South Orange, New Jersey

Ehrgood, Thomas Alexander, Jr.
Lebanon, Pennsylvania

Ellis, John Lee
Fort Worth, Texas

Emanuel, Steven Lazar
Teaneck, New Jersey

Epstein, Andrew Ernest
Ann Arbor, Michigan

Ewing, Lee Baylor
Cuba, Illinois

Fernald, David Brooks
Needham, Massachusetts

Filler, Jorge Simon
New York, New York

Fox, John Martin
Lancaster, Pennsylvania

Franklin, Presley
Marks, Mississippi

Freudenthal, David Duane
Thermopolis, Wyoming

Galloway, Edward Hines
Greensboro, North Carolina

Gately, Edward Joseph, III
Haverford, Pennsylvania

Gentilli, Richard Emile
Milan, Italy

Gerchick, Mark Lawrence
Scarsdale, New York

Gibney, Edward
St. John, U.S. Virgin Islands

Gibralter, Richard Paul
Westbury, New York

Gilbert, Oliver Stern
Webster Groves, Missouri

Glover, George Thomas
Middletown, Connecticut

Goff, Stephen Payne
Swansea, Massachusetts

Gold, Kenneth David
Plainview, New York

Golenbock, Jeffrey Taylor
Scarsdale, New York

Goodman, Alan Robert
Ware, Massachusetts

Gordon, David
Silver Spring, Maryland

Green, Stephen Lloyd
Pittsfield, Massachusetts

Gumport, Michael Andrew
New York, New York

Hackett, David Gray
Ann Arbor, Michigan

Haggerty, Kevin Patrick
Arlington, Virginia

Hall, Theodore Ray
Tulsa, Oklahoma

Harris, Bruce Anthony
Cedar Rapids, Iowa

Harris, Isaac Anthony, Jr.
Darien, Georgia

Hasen, John Hunnewell
New York, New York

Hayden, Jonathan Brewster
Yarmouth, Maine

Hayes, Gregory Michael
River Forest, Illinois

Hayner, Thomas Aquinas
Lexington, Massachusetts

Hicks, Robert Christopher
Los Angeles, California

Higgins, Alfred Clinton
Washington, D.C.

Hilbert, Christopher Robin
Moorestown, New Jersey

Hoke, Martin Rossiter
Lorain, Ohio

Holmes, Richard Douglas
Howard Beach, New York

Hopfan, Job
Roslyn Heights, New York

Horbar, Gary Michael
East Rockaway, New York

Horner, Richard Linscott
Columbia, Missouri

Hunter, Richard Hudspeth
Cresskill, New Jersey

Huskins, Kenneth Robert
Hempstead, New York

Isabell, Lonnie
Lackawanna, New York

Iwanski, Jerald Richard
Utica, Michigan

Jacob, William Carroll, Jr.
Scarsdale, New York

Jacobs, Richard Leo
Scarsdale, New York

Jaeger, R. Lloyd
Suffern, New York

Johnson, Clifton Charles
Wilbraham, Massachusetts

Johnson, George Robert, Jr.
Columbus, Georgia

Johnson, Ralphael Tyrone
St. Albans, New York

Johnston, Eric Richard
Norwalk, Connecticut

Jones, Albert Richard, III
Worcester, Massachusetts

Jones, Kenneth Leroy
Kinston, North Carolina

Joyner, Shelton, Jr.
Indianapolis, Indiana

Keenan, William Joseph, Jr.
West Hartford, Connecticut

Keith, Stephen Norbert
Chicago, Illinois

Keller, Geoffrey Lynn
Pasadena, California

Kemp, Thomas Lawson
Avon, Connecticut

Kennedy, Thomas Kevin John
Albuquerque, New Mexico

Kessler, David Aaron
Freeport, New York

Kester, Walter Carl
Swampscott, Massachusetts

Ketting, Jaap Jan
Bedford Hills, New York

King, Edward Chian-Shuan
Bethesda, Maryland

Kirkpatrick, Brett Turnley
Nashville, Tennessee

Klugman, Steven Ira
Havertown, Pennsylvania

Klutchko, Bruce Stewart
Farmingdale, New York

Koch, Douglas Donald
Port Huron, Michigan

Kowal, George Peter
Glenview, Illinois

Lacey, John Fairbank
Mendham, New Jersey

Land, Henry Carter, III
Alexandria, Virginia

Lavigne, Robert George
Hartford, Connecticut

Lenox, Theodore Henry, III
Nashville, Tennessee

Leskowitz, Eric David
Framingham, Massachusetts

Levin, Theodore Craig
Weston, Massachusetts

Lewis, Gregory Scott
New Canaan, Connecticut

Libby, Thomas Gerold
Hastings-on-Hudson, New York

Liedtke, William Clarence, III
Houston, Texas

Livingston, Peter
Seattle, Washington

Long, Joseph Vincent, III
Penfield, New York

Loo, Clyde
New York, New York

MacKay, John Leonard
Montreal, Quebec, Canada

Mackey, William Charles
Atlanta, Georgia

Mantini, Dana Robert
Cambridge, Massachusetts

Marberger, Thomas Frederick
Arcola, Pennsylvania

Margulies, David Michael
Springfield, New Jersey

Martin, Donald Craig
Sturgis, Michigan

McCarthy, David Dennis
Farmington, Connecticut

McCorkle, William Frantz, Jr.
Lexington, Virginia

McCray, Harold Estle
Philadelphia, Pennsylvania

McCreary, Robert Grosvenor, III
Shaker Heights, Ohio

McGill, Scott A.
Willowdale, Ontario, Canada

McHenry, John Evans, III
Wilmington, Delaware

McNeil, David Lang
Cincinnati, Ohio

McNeil, David Willard
West Boxford, Massachusetts

McNeish, David Dixon, Jr.
Wellesley Hills, Massachusetts

McNitt, James Darrell
Winnetka, Illinois

Menitove, Stephen Mark
Rockville Centre, New York

Messersmith, Andrew Kirk
Lancaster, Pennsylvania

Meyers, Stuart Louis
Pittsburgh, Pennsylvania

Milam, Jeffrey Lee
Los Angeles, California

Miller, Joseph Michael
Brooklyn, New York

Miller, William Bayard, Jr.
Wallingford, Pennsylvania

Miranda, Oscar, Jr.
New York, New York

Mitnick, John Harrod
Baltimore, Maryland

Mixter, James Murchie Eaton, Jr.
Cincinnati, Ohio

Moyer, Jonathan Frederick
Louisville, Kentucky

Mueller, Harold Carl
Creve Coeur, Missouri

Murphy, Paul Randolph
Philadelphia, Pennsylvania

Murphy, Richard Nathaniel
Hingham, Massachusetts

Murphy, Robert Douglas
Ridgewood, New Jersey

Nash, Jay Arthur
Cincinnati, Ohio

Nelson, Carl Eric
West Concord, Massachusetts

Nerbonne, John Arthur, Jr.
Weymouth, Massachusetts

Neustadt, Ira
Florida, New York

Newton, Ratliff Michael
Chicago, Illinois

Norman, Alan David
Brookline, Massachusetts

Noyes, John Ely
Amherst, Massachusetts

O'Brient, James David
Danvers, Massachusetts

Offen, David Scott
Princeton, Massachusetts

O'Neil, William Bruce
Howe, Indiana

Ogilvie, William Mark
St. Louis, Missouri

Orme, Eric Charles
Salt Lake City, Utah

Ourieff, Bruce Arthur
Los Angeles, California

Paine, Robert, III
St. Louis, Missouri

Pascone, David John
Johnston, Rhode Island

Patterson, John Thomas
Haddonfield, New Jersey

Pease, William Thompson
Wilmington, Delaware

Petrides, Chris Allan
Fitchburg, Massachusetts

Phillips, Mark Francis
Rockville, Connecticut

Phillips, William Walter
Westfield, New Jersey

Pullman, John
Hornell, New York

Rachleff, Peter Jay
New London, Connecticut

Raines, Rudolph
Brooklyn, New York

Rawdon, Blaine Knight
Riverside, California

Read, Verne Ross, III
Milwaukee, Wisconsin

Regier, Jon Denniston
River Edge, New Jersey

Reingold, Paul Dennis
Concord, New Hampshire

Rich, Alan Brewster, Jr.
Portland, Maine

Ridgley, Stephen Donald
Danvers, Massachusetts

Ringel, Jed Scott
Syosset, New York

Roberts, Dirk Stanley
New York, New York

Rosenkrantz, Carl
Miami Beach, Florida

Rosenthal, Edward Scott
Tenafly, New Jersey

Rosenthal, Jonathan Harry
New York, New York

Ross, Thomas Fredrick
Albuquerque, New Mexico

Roth, Charles Peterson
New York, New York

Russo, Mark Louis
Deerfield, Massachusetts

Ryan, Stephen David, III
Locust Valley, New York

Ryans, Albert
Dorchester, Massachusetts

Sailor, Richard Vance
East Patchogue, New York

Saladino, Angelo Henry
Utica, New York

Salerni, Paul Frank
New Britain, Connecticut

Samela, Leonard Vincent
Waterbury, Connecticut

Sampson, George William
Hanover, New Hampshire

Sarafian, Steven Sarkis
Bronx, New York

Sarsynski, Michael Paul, Jr.
Hadley, Massachusetts

Scheer, Peter Edward
Poughkeepsie, New York

Scheinman, Steven Jay
Woodbourne, New York

Schneider, Bryan Marshall
Georgetown, South Carolina

Schneider, Frederick William
Yonkers, New York

Schneider, Paul Robert
Tucson, Arizona

Schnitker, John Peter
Toledo, Ohio

Schoepfer, Stephen Edward
Wellesley Hills, Massachusetts

Scholten, James Roger
Wayland, Massachusetts

Scott, Andrew Ross, Jr.
Sherborn, Massachusetts

Sellers, Thomas Peyton
Leverett, Massachusetts

Shepard, Thomas Rockwell, III
Greenwich, Connecticut

Shih, Christopher Louie
Brighton, Massachusetts

Shuck, John DeWitt
Minneapolis, Minnesota

Shulman, George Mark
Mountainside, New Jersey

Sils, Peter
Concord, Massachusetts

Simpson, Thomas Braddock, III
New Canaan, Connecticut

Sims, Peter Jay
New Rochelle, New York

Skeele, John Franklin
New Canaan, Connecticut

Sklover, Alan Lawrence
Malverne, New York

Skove, Thomas Malcolm, Jr.
Shaker Heights, Ohio

Skubi, Craig Anthony
Seattle, Washington

Smith, Edward Lyman, Jr.
Flossmoor, Illinois

Smith, Jeremiah Elijah
LaGrange, Georgia

Smith, Peter Whitall
State College, Pennsylvania

Smith, Stephen Slade
Rochester, New York

Soong, Arthur Jee-Chung
New York, New York

Sosnow, Peter Lewis
Freeport, New York

Spaeth, Edmund Benjamin, III
Philadelphia, Pennsylvania

Springer, Allen Lawrence
Geneva, New York

Squire, Jeffrey Harold
Levittown, Pennsylvania

Stearman, Gordon Kim
Phoenix, Arizona

Stern, Chester Jay
Denver, Colorado

Straub, Kenneth Marshall
APO San Francisco, California

Stringer, John Arbuthnott
Darien, Connecticut

Swann, John Thomas
Knoxville, Tennessee

Taft, Millens Walter, III
East Longmeadow, Massachusetts

Tarnoff, John Brooks
Scarsdale, New York

Tasch, Edward Bennett
Stamford, Connecticut

Telfer, James Laureston
Grosse Pointe Farms, Michigan

Thaler, Malcolm Stuart
Poughkeepsie, New York

Theismann, John August
Mayville, New York

Tinker, David Duncan
Easton, Maryland

Tonino, Richard Philip
West Hartford, Connecticut

Toth, Christopher Keats
St. David's, Pennsylvania

Troll, Mark Andrew
Brooklyn, New York

Trushin, Neil Mark
Mt. Vernon, New York

Unfug, Charles Stephen
Fort Collins, Colorado

Vaughan, Frank Apthorp
Cambridge, Massachusetts

Veeder, Thomas Gordon
Princeton, New Jersey

Wade, Jeptha Alan, III
Saratoga, California

Waller, Donald Macgregor
Indianapolis, Indiana

Ware, David Keith
Manchester, Connecticut

Webb, Alexander Henderson
South Salem, New York

Weiss, Stephen Mark
New York, New York

Weller, K. Richard
East Grand Rapids, Michigan

Wetrich, William Wallace
Claremont, California

Wheeler, William Scott
Darien, Connecticut

Whittenberger, Brock Poston
Grand Rapids, Michigan

Widmer, James Edward
Wayne, Pennsylvania

Wilbur, Nathan Lord
Portland, Connecticut

Williams, Andre Martin
Trenton, New Jersey

Williams, Jerre Stockton, Jr.
Bethesda, Maryland

Wilson, Robert Milton, Jr.
Hartford, Connecticut

Wingo, Anthony Kevin
Washington, D.C.

Winkelman, Marc David
Shaker Heights, Ohio

Winkler, Peter David
Bethesda, Maryland

Wojcik, David Albin
Ware, Massachusetts

Wolff, Richard Arnold
Glencoe, Illinois

Wooten, William Daniel, Jr.
Lynchburg, Virginia

Wright, Charles Edward
Bethesda, Maryland

Wyman, James Nayler
Amherst, Massachusetts

Yock, Paul Gordon
St. Louis Park, Minnesota

Young, Elmer Lorne
Harrison, New York

Young, Jeffrey Sean
London, England

Zaret, David Raphael
Great Neck, New York

Zickel, Mark Henry
Santurce, Puerto Rico

Zink, Paul Alexander
Marblehead, Massachusetts

Zurkow, Jeffrey Leaf
Dover, Delaware

EXCHANGE STUDENTS IN RESIDENCE AT AMHERST

Name	*Class*	*College*
Annett, Joan Margaret* Minneapolis, Minnesota	1970	Smith College
Bayton, Michael DeWitt *Baltimore, Maryland*	1971	Morgan State College
Brucatti, Kathleen Ellen* West Springfield, Massachusetts	1970	Mount Holyoke College
Calvert, Philip James Hitchin, Hertfordshire, England		University of Warwick
Chappell, John Ian Redruth, Cornwall, England		University of Warwick
Dallas, Helen Linda* Scarsdale, New York	1971	Mount Holyoke College
Fennelly, Elizabeth Frances Ursula* Brooklyn, New York	1972	Smith College
Greenblatt, Jane Aron* Newton Center, Massachusetts	1970	Vassar College
Hannah, Mosie Rudolph Lake City, South Carolina		Voorhees College
Heuman, Barbara Lois* Rockville Centre, New York	1971	Smith College

*Member of Eleven-College Exchange Program.

Name	*Class*	*College*
Hield, Melissa Barber* St. Louis Park, Minnesota	1972	Smith College
Hut, Margaret Susan* Scarsdale, New York	1970	Smith College
Irwin, Betsy Taylor* Ridgewood, New Jersey	1972	Mount Holyoke College
Longsworth, Ellen Louise* Hicksville, Ohio	1971	Mount Holyoke College
Michael, Cynthia* Excelsior, Minnesota	1970	Mount Holyoke College
Patrone, Mary Jane* Glenview, Illinois	1971	Mount Holyoke College
Perry, Len Sherwood *Baltimore, Maryland*	1971	Morgan State College
Pierce, Victoria Wright* New York, New York	1971	Mount Holyoke College
Previll, Sheryl Lynn* Charleston, West Virginia	1970	Smith College
Rom, Rebecca Laurene* Ely, Minnesota	1971	Mount Holyoke College
Rooklin, Linda Lee* Bethlehem, Pennsylvania	1972	Mount Holyoke College
Schneider, Karen Elizabeth Pedersen* Coral Gables, Florida	1972	Smith College
Shirk, Adrienne Ellen* Englewood, New Jersey	1971	Mount Holyoke College
Tueting, Laura Ann* Minneapolis, Minnesota	1972	Mount Holyoke College
Vallila, Marja-Riita Janica* Washington, D.C.	1972	Mount Holyoke College
Warshaw, Carole Leslie* Teaneck, New Jersey	1971	Mount Holyoke College
Wasserstein, Wendy Joy* New York, New York	1971	Mount Holyoke College
Weinman, Marjorie Sue* Norwich, New York	1971	Mount Holyoke College

AMHERST STUDENTS ON EDUCATIONAL LEAVES OF ABSENCE

Abrahamson, Robert Louis Elkins Park, Pennsylvania	1971	University of Edinburgh
Adams, Roger Cole Chestnut Hill, Massachusetts	1971	University of Warwick
Bishop, David Hardy* Westport, Connecticut	1972	Smith College
Brudney, James Julius New York, New York	1971	University of Manchester

*Member of Eleven-College Exchange Program.

Caroff, Peter New York, New York	1971	Amherst College Field Study Program
Claflin, Edward Beecher Cleveland, Ohio	1971	University College in Dublin
Cole, Harry Fahrig* Providence, Rhode Island	1971	Smith College
Cope, Stephen Crothers Wooster, Ohio	1971	Antioch College
Daring, Kevin Mason Clarks Summit, Pennsylvania	1971	Voorhees College
Haley, Jeffrey Thornton Tacoma, Washington	1971	Institute for American Universities (France)
Harris, Mark P. Briarcliff Manor, New York	1970	Sarah Lawrence College
Hastil, John Christopher Patrick Bayside, New York	1971	Amherst College Field Study Program
Hoag, John Aronow Grosse Pointe, Michigan	1972	Institute of European Studies (France)
Hudson, Tom Scott* Zionsville, Indiana	1971	Smith College
Jones, John Christopher* Bronx, New York	1971	Smith College
Kaufman, Daniel Jonathan Great Neck, New York	1971	University of Rochester
Kramer, John Howard* Bethesda, Maryland	1972	Smith College
Lhomond, Jean Yves Tours, France	1971	Vincennes, University of Paris
Peterson, John Howard New Richmond, Wisconsin	1971	Amherst College Field Study Program
Pinsof, Lawrence Daniel Winnetka, Illinois	1971	Queen Mary University of London
Sims, Charles Stephen Detroit, Michigan	1971	Sarah Lawrence College
Smith, Jeffrey Davis* Endicott, New York	1971	Smith College
Smith, Thomas Russell Dansville, New York	1971	University of Warwick
Sparks, Robert Steven* St. Louis, Missouri	1971	Vassar College
Tamsky, Adam* West Hartford, Connecticut	1971	Vassar College
Weinhaus, Richard Steven St. Louis, Missouri	1970	Amherst College Field Study Program
Whitaker, Daniel Collier Falls Church, Virginia	1971	University of Madrid

*Member of Ten-College Exchange Program.

SUMMARY OF ENROLLMENT*

Seniors, Class of 1970	304
Juniors, Class of 1971	287
Sophomores, Class of 1972	304
Freshmen, Class of 1973	313
Sub Total	1,208
Exchange Students— Full Time	28
Sub Total	1,236
Special Students	7
TOTAL	1,243

*Not included are the 27 Amherst students who are on educational leaves away from Amherst as of the first semester, 1969-70.

CLASSIFICATION BY RESIDENCE

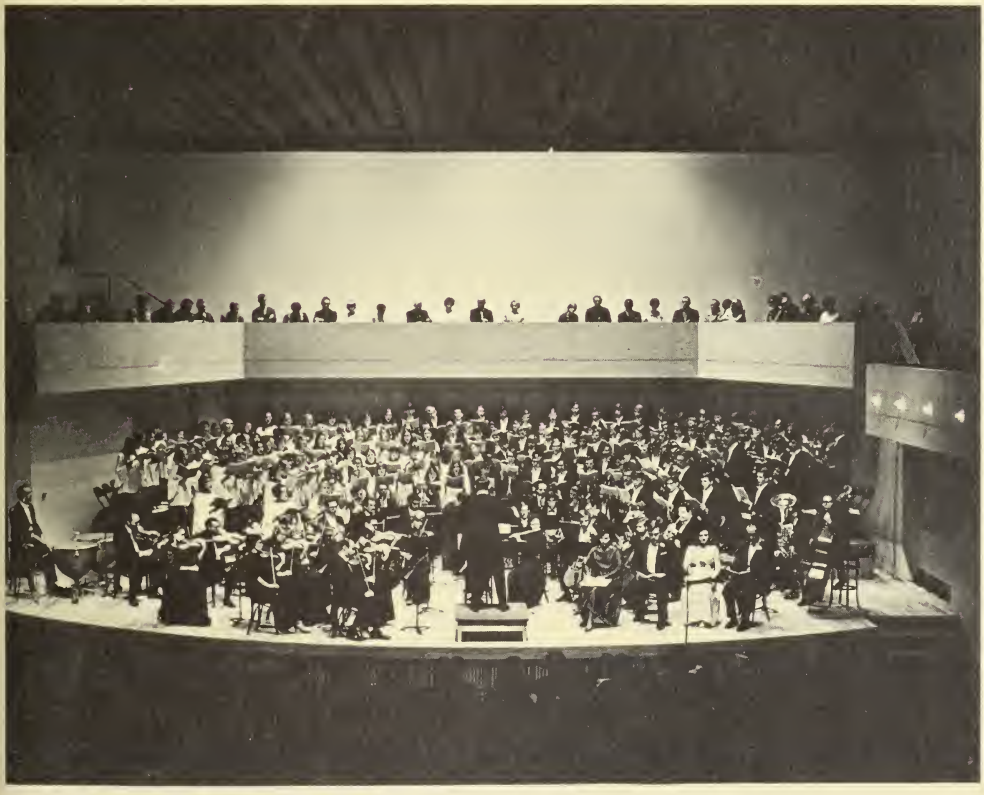
New York	251
Massachusetts	194
Connecticut	112
New Jersey	85
Pennsylvania	75
Illinois	48
Maryland	43
Ohio	43
California	31
Michigan	24
Missouri	19
Rhode Island	19
Maine	18
Virginia	17
Minnesota	16
Texas	16
District of Columbia	14
New Hampshire	13
Georgia	12
Vermont	11
Florida	10
Colorado	9
North Carolina	9
Wisconsin	9
Tennessee	8
Washington	8
Delaware	6
Indiana	6
Iowa	6
Oklahoma	5
Arizona	4
Hawaii	4
Louisiana	4
Kentucky	3
Montana	3
New Mexico	3
Oregon	3
South Carolina	3
Alaska	2
Idaho	2
Mississippi	2
Nebraska	2
Wyoming	2
Alabama	1
Nevada	1
Utah	1
Canada	8
Japan	3
Greece	2
Virgin Islands	2
Brazil	1
Canal Zone	1
Ceylon	1
East Bermuda	1
England	1
France	1
Germany	1
Italy	1
Netherlands Antilles	1
Peru	1
Puerto Rico	1
Scotland	1
Thailand	1
Uganda	1
Venezuela	1
West Cameroon	1
Total	1208

VI

THE SOCIETY OF THE ALUMNI

THE ALUMNI COUNCIL

THE ALUMNI ASSOCIATIONS

Buckley Hall in the Amherst Music Building

The Society of the Alumni

OFFICERS

Honorary President: Clarence Francis '10

President: Robert J. McKean, Jr. '50

Vice Presidents: Calvert H. Crary '30, Samuel T. Tisdale '35, Henry B. Bruyn, M.D. '40, William H. Webster '45, Edward D. Cobb '50

Secretary-Treasurer: J. Alfred Guest '33

COMMITTEES

Nominating Committee: Frederic A. Stott '40 (Chairman), M. Parker Butts '45, Warren Cross '50, Ernest VanB. Seasholes '55, Hugh R. Jones, Jr. '50

Inspectors of Election: William H. Ross '29 (Chairman), John H. Hills '31, H. Hills Skillings '38

Committee to Nominate Alumni Trustees: S. Charles Hanson '30 (Chairman), Harry I. Trautmann, Jr. '40, Archie A. Messenger '45, Franh G. Stisser, Jr. '50, Walter W. Dorrell, Jr. '55

The Annual Meeting of The Society of the Alumni is held in Commencement Week.

The Alumni Council

OFFICERS

Chairman: Robert J. McKean, Jr. '50

Secretary: J. Alfred Guest '33

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1969-1970

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